



**FILED**

04/22/19  
04:59 PM

**A1904015**

**BEFORE THE PUBLIC UTILITIES COMMISSION  
OF THE STATE OF CALIFORNIA**

Application of Pacific Gas and Electric  
Company for Authority to Establish Its  
Authorized Cost of Capital for Utility  
Operations for 2020 and to Reset the Annual  
Cost of Capital Adjustment Mechanism.

(U 39 M)

Application No. 19-04-\_\_\_\_\_

**APPLICATION OF PACIFIC GAS AND ELECTRIC  
COMPANY FOR TEST YEAR 2020 COST OF CAPITAL**

STEVEN W. FRANK  
SHIRLEY A. WOO

Pacific Gas and Electric Company  
77 Beale Street  
San Francisco, CA 94105  
Telephone: (415) 973-2248  
Facsimile: (415) 973-5520  
E-Mail: Shirley.Woo@pge.com

Dated: April 22, 2019

Attorneys for  
PACIFIC GAS AND ELECTRIC COMPANY

**BEFORE THE PUBLIC UTILITIES COMMISSION  
OF THE STATE OF CALIFORNIA**

Application of Pacific Gas and Electric  
Company for Authority to Establish Its  
Authorized Cost of Capital for Utility  
Operations for 2020 and to Reset the Annual  
Cost of Capital Adjustment Mechanism.

Application No. 19-04-\_\_\_\_\_

(U 39 M)

**APPLICATION OF PACIFIC GAS AND ELECTRIC  
COMPANY FOR TEST YEAR 2020 COST OF CAPITAL**

Pursuant to California Public Utilities Commission (CPUC or Commission) Decision (D.)17-07-005 and D.18-01-001, Pacific Gas and Electric Company (PG&E or the Company) submits its Cost of Capital application for Test Year 2020.

**I. BACKGROUND**

As part of a commitment to attract the necessary capital to fund investment in critical safety and reliability infrastructure to serve the energy needs of approximately 16 million people across its Northern and Central California service area, PG&E submits this application to request Commission approval of PG&E's cost of capital for test year 2020 for cost of equity, cost of preferred stock, and cost of debt. The proposed cost of capital and capital structure will be essential for PG&E to attract new investment capital to upgrade, maintain, and modernize its critical energy infrastructure. The proposal will help restore PG&E's credit quality, thereby reducing overall financing costs, while also ensuring that PG&E has the capital to invest in energy infrastructure that is essential to provide safe, clean, and reliable electric and gas service at a reasonable cost to its customers.

Over the next four years, 2019-2022, PG&E expects to fund up to \$28 billion in energy infrastructure investments.<sup>1</sup> These investments benefit customers and the communities in which they live. These critical energy infrastructure investments include the following:

---

<sup>1</sup> The estimated revenue requirement increase is based on the currently authorized rate bases, and does not reflect projected infrastructure investments in 2019 and beyond.

- **Electric and gas safety and reliability and increased system hardening:** \$21 billion
- **New gas pipelines and electric powerlines:** \$4 billion
- **Power Generation:** \$1 billion
- **Information technology, equipment, and facilities:** \$2 billion

To help attract the necessary capital to meet its customers' energy needs, PG&E requests a 16 percent rate of return on equity for 2020, which would result in a \$1.2 billion increase in its revenue requirement. This return on equity results from the rate of return on equity analysis for a California utility with a normal risk profile, approximately 11 percent, without asymmetric wildfire risk, plus a premium for catastrophic wild fire exposure of at least 500 basis points. With approval of the 16 percent rate of return on equity, the system average bundled electric and bundled non-CARE residential gas rates would increase by approximately 6.4 percent and 7.7 percent, respectively. As stated, approval of this application is critical to PG&E's ability to attract the capital necessary to fund the infrastructure work that directly benefits our shared goals of improving energy reliability and safety.

PG&E understands and appreciates that any increase to its customers' rates and bills needs careful consideration. We fully support the CPUC's public hearing process. We believe that an open and transparent review of this proposal that involves our customers is in the public interest and encourages comments and feedback from customers and stakeholders as the Commission determines the appropriate cost of capital that will help reduce future borrowing costs and improve the Company's financial health, while attracting the necessary capital to meet our customer's energy needs and California's energy future.

In the interest of doing what is best for our customers, the State and PG&E, the Company is working with its regulators, state policymakers and other stakeholders to address the safety and operational challenges posed by extreme weather and wildfires. PG&E is committed to working collaboratively with all parties to reach a sustainable and equitable policy solution to the current crisis that is impacting every energy provider across the State. It is our sincere hope that a

viable solution can be reached, and if such a solution is reached and implemented, PG&E is committed to amending this application with an updated Cost of Capital that would reflect the policy solution.

## **II. FINANCIAL AND REGULATORY UNCERTAINTY**

This application is submitted at a time of great financial and regulatory uncertainty for PG&E. As noted in its annual report on Form 10-K for the year ended December 31, 2018, PG&E has recorded wildfire-related liabilities totaling \$14.0 billion (non-cash and pre-tax) in 2018. Moreover, PG&E's potential liability for the 2017 and 2018 wildfires could exceed \$30 billion. These factors informed PG&E's decision to file for relief under Chapter 11 of the United States Bankruptcy Code on January 29, 2019.

The Commission has initiated several major proceedings that could have a material effect on PG&E, including i) the Safety Culture Investigation, I. 18-12-007, which has raised questions about PG&E's corporate governance and structure among other matters; and ii) the Rulemaking to Implement Public Utilities Code Section 451.2 Regarding Criteria for Wildfire Cost Recovery Pursuant to Senate Bill 901, R.19-01-006.<sup>2/</sup> In the latter proceeding, the Commission is to determine the maximum amount the Company can pay without harming customers or materially impacting its ability to provide safe and reliable service, as well as meet its other important responsibilities.

In other developments, the Governor commissioned a Strike Force to advise on PG&E and its Chapter 11 bankruptcy filing. The Strike Force issued its report on April 12, 2019 (Strike Force Report), which thoughtfully discusses many potential consequences for California and its residents from the new wildfire reality. The Strike Force Report identifies numerous actions the

---

<sup>2/</sup> PG&E has heard the calls for change in its culture and leadership. PG&E is committed to taking substantive steps and actions to make its utility systems and operations safe. The actions already taken include major changes to its board of directors, including 10 new directors with a broad range of operational, safety, and financial expertise. Effective May 1, 2019, PG&E Corporation has a new Chief Executive Officer and President, who will be tasked with achieving the operational changes and safety improvements that the Commission, California, customers, and other stakeholders expect and demand.

State needs to take, including the need for a durable solution to reform inverse condemnation's application to the State's utilities.<sup>3/</sup> Additionally, the Commission on Catastrophic Wildfire Cost and Recovery, as directed by Senate Bill 901, was created to examine issues related to wildfires associated with utility infrastructure, and to produce recommendations on changes to law that would ensure equitable distribution of costs among affected parties. Those recommendations are due to the Governor and the Legislature by July 1, 2019. Further, PG&E believes that the California Legislature may consider possible legislative action related to the crisis faced by PG&E and other electric utilities exposed to wildfire-related risks. As the Governor stated in his State of the State address:

The problems we face are far greater than PG&E. Climate change is putting pressure on all of our utilities—public and private, north and south. Edison and San Diego Gas & Electric both recently had their credit ratings downgraded . . . We must map out longer-term strategies, not just for the utilities' future, but for California's energy future, to ensure that the cost of climate change doesn't fall on those least able to afford it.

The proceedings and factors described above are in motion and are part of the significant financial and regulatory uncertainty faced by PG&E. The impact of such uncertainty, coupled with the future risk posed by wildfires, has a clear impact on PG&E's ability to attract capital. During 2018 and January 2019, PG&E Corporation's and PG&E's credit ratings were subject to multiple downgrades by Fitch Ratings (Fitch), S&P Global and Moody's Investor Services (Moody's), including to below investment grade, and ultimately to "D" or low "C" ratings. Effective February 5, 2019, and March 15, 2019, Moody's and Fitch, respectively, have withdrawn each of their credit ratings for PG&E due to the Chapter 11 filing.

The credit rating downgrades and the level of unprecedented uncertainty were significant considerations in PG&E's decision to file for reorganization under Chapter 11. When PG&E emerges from Chapter 11, future wildfire-related risk and structural problems will make it increasingly difficult for PG&E to attract sufficient capital that is necessary to meet the energy

---

<sup>3/</sup> Governor Newsom's Strike Force, Wildfires and Climate Change: California's Energy Future (April 12, 2019), p. 27. <https://www.gov.ca.gov/wp-content/uploads/2019/04/Wildfires-and-Climate-Change-California%E2%80%99s-Energy-Future.pdf>

needs of its customers and the State. PG&E strongly believes that its 2020 Cost of Capital proposal is critical to attracting the capital necessary, among other things, to operate its business and invest in its utility systems to provide safe and reliable service for its gas and electric customers and the communities it is privileged to serve.

### **III. PG&E COST OF CAPITAL PROPOSALS**

PG&E's requests for its authorized cost of capital are set forth below. Together they would increase PG&E's 2020 revenue requirement approximately \$1.2 billion, spread over electric generation, electric distribution, gas distribution, and gas transmission and storage.

#### **A. Rate of Return on Equity**

PG&E's cost of equity could be very different depending on the final resolution of the risks it faces. If the current uncertainty were to persist through 2019 and 2020, the wildfire risk and the regulatory uncertainty over liability and cost recovery would remain. PG&E is taking extraordinary operational measures to mitigate wildfire risks. However, regulatory and/or legislative action is needed to fully address the structural problems facing PG&E and other California utilities. These problems include the cause of wildfires that are beyond PG&E's control, PG&E's ability to finance the operational, safety and capital improvements necessary to mitigate wildfire risk potentially within its control, and the allocation of wildfire-related costs among stakeholders. If these risks and structural problems can be sufficiently addressed through Commission proceedings and/or legislative action, including sustainable, long-term solutions like those discussed in the Strike Force Report, then PG&E may be able to attain a risk profile more typical of regulated utilities. At such time, PG&E has committed to update this Cost of Capital application or file a new Cost of Capital application.

For all these reasons, PG&E presents cost of capital testimony which estimates its cost of equity, or rate of return on equity (ROE), based on its current significant risk exposure. As PG&E states here and has stated in R.19-01-006, increasing the ROE for wildfire risk alone is insufficient. Managing the extreme risks of catastrophic wildfires now and in the future requires a comprehensive and sustainable solution. PG&E supports addressing and solving its wildfire

challenges directly through significant operational, safety and capital improvements, in other proceedings for cost recovery, and through supportive legislative action. However, until such actions are taken, the proposed premium for asymmetric risk in the requested ROE of 16 percent reflects the risks inherent in investing in PG&E and is the estimated minimum necessary to attract the capital to fund critical safety and reliability investments and operations.

While PG&E's requested ROE is 16 percent, the testimony contains information on what the ROE proposal would be if the wildfire risk were addressed with a sustainable, long-term solution to the point of returning PG&E to the typical risk profile of a California electric utility before the wildfires. If the wildfire-related challenges and structural problems and risk are partially mitigated by limited relief or reforms, the appropriate ROE should be materially be less than 16 percent, but could be higher than the ROE allowed based on historical precedents for a typical regulated California utility. If the Commission and the Legislature implement meaningful and effective actions to reduce the extent of the wildfire risk-related challenges and structural problems facing customers, the Company, and its shareholders, PG&E proposes to amend this application with an updated cost of capital. PG&E also proposes to file a new Cost of Capital application on or about the time it emerges from its Chapter 11 bankruptcy proceeding.

## **B. Capital Structure**

On February 28, 2019, PG&E filed A.19-02-016, to request a waiver of the capital structure condition contained in D.96-11-017 and D.06-12-029 (Capital Structure Waiver application). The Capital Structure Waiver application, page 3, reported that PG&E had taken certain non-cash charges, as reported in its Form 10-K for year ended December 31, 2018, filed with the SEC on February 28, 2019. The charges were required accounting charges in accordance with U.S. Generally Accepted Accounting Principles (GAAP); they were non-cash which means they were unaccompanied by cash outflows. The non-cash charges dropped PG&E's equity ratio below 51 percent. On a GAAP basis as of December 31, 2018, PG&E's equity ratio had declined to approximately 41 percent. While PG&E's Capital Structure Waiver

application is pending, PG&E is deemed in compliance with the capital structure condition. Since the charges are non-cash, the Commission also may decide that they should be excluded for determining compliance with the authorized regulatory capital structure.

For purposes of its regulatory ratemaking capital structure, it would be appropriate to maintain the 52 percent equity ratio authorized in previous cost of capital decisions. Since the charges which reduced PG&E's GAAP equity below 52 percent were non-cash, PG&E's assets continue to be funded as they were before the non-cash charges. In other words, funds provided by equity investors and by retained earnings continue to be invested in the assets. Therefore, PG&E requests that the CPUC i) exclude the non-cash charges in determining PG&E's capital structure for ratemaking purposes; and ii) continue the cost of capital equity percentage at 52 percent, 0.5 percentage for preferred stock, and 47.5 percentage for debt.

Commission approval of the requested capital structure for cost of capital ratemaking in this application does not change PG&E's request for a waiver of the capital structure condition in the Capital Structure Waiver application, A.19-02-016, in so far as PG&E's equity percent for GAAP is 41 percent. While PG&E remains in bankruptcy, it is unable to issue new equity that would be needed to reach 52 percent equity for GAAP. Moreover, the compliance issues in the Capital Structure Waiver application have little to do with the appropriate return on equity and return on rate base that are needed to ensure that PG&E will be able to attract capital to invest in its utility infrastructure and to operate its business safely and reliably, which is the subject of the cost of cost of capital proceeding.

### **C. Cost of Debt**

In order to secure access to outside funding needed to support its utility operations, PG&E obtained debtor-in-possession (DIP) financing for the 2-year period it expects to be in bankruptcy, which, subject to satisfaction of certain terms and conditions, may be extended for a third year. The DIP financing is in lieu of regular financing PG&E would have issued to support utility operations, if PG&E's financial health had remained adequate to support access to capital markets at reasonable prices. The DIP financing is necessary for the normal, safe delivery of



utility services to PG&E's customers. Therefore, PG&E has included the costs of the DIP financing in the cost of debt requested in this proceeding. The new cost of debt requested in this case is 5.16 percent.

By requesting recovery of DIP financing costs in this case, PG&E seeks the authorization required in D. 19-01-026, page 2, and D. 19-01-025, page 2, for cost recovery.

#### **D. Annual Cost of Capital Adjustment Mechanism**

The Annual Cost of Capital Adjustment Mechanism (ACCAM) is a tool to change the cost of capital based on changes in interest rates adopted by the Commission in D. 08-05-035. PG&E's testimony presents an evaluation of the mechanism's performance. PG&E proposes that the ACCAM be continued. As discussed in Chapter 1, PG&E's risk profile is much higher today than in past years, and much higher than an average U.S. utility. PG&E recognizes that its risk may be dramatically reduced as a result of changes in state policies and cost recovery for wildfire-related costs. In that event, as PG&E states above, PG&E would file an amended cost of capital in this proceeding, or a new cost of capital application. Although PG&E contemplates that the ACCAM will operate as planned, the ACCAM may be superseded in its normal operation by a new cost of capital application.

#### **E. Customer Deposits**

PG&E is holding its customer deposits as cash invested in money market funds for the duration of its Chapter 11 case. As stated in its Chapter 11 filing, PG&E believes the balance of customer deposits should not be used to fund operations during bankruptcy proceedings. As a result of this treatment, customer deposits are not a source of funds to finance rate base. PG&E anticipates that the outcome of its Chapter 11 case may reflect settlement of various issues, including some that may impact its cost of capital, potentially including treatment of customer deposits. Accordingly, PG&E recommends that ratemaking for customer deposits post-bankruptcy be taken up in PG&E's next cost of capital application after it emerges from bankruptcy.

## **IV. RATE IMPLEMENTATION**

### **A. Revenue Requirement Changes**

On a 2020 test year basis, the proposed cost of capital will produce revenue requirement increases of approximately \$843.9 million and \$228.8 million from present rates for PG&E's electric generation and distribution and gas distribution operations, respectively, assuming the currently authorized rate bases. The revenues for the gas transmission and storage operations will increase by approximately \$158.6 million. If the Commission subsequently approves different electric and gas rate bases for PG&E,<sup>4/</sup> the revenue requirement changes resulting from PG&E's requested 2020 rate of return may vary from the amounts shown in this Application.

### **B. PG&E's Present Rates**

PG&E's current rates and charges for electric utility generation and distribution, gas distribution, transmission and storage service are contained in PG&E's electric and gas tariffs, schedules, and special contracts on file with the Commission. These tariffs, schedules, and contracts were filed with and made effective by the Commission in its decisions, orders, resolutions, and acceptances of advice letter filings. PG&E's presently effective gas and electric rates are attached as Exhibit A to this Application.

### **C. PG&E's Rate Proposal**

PG&E proposes to implement any revenue requirement change resulting from a decision in this proceeding in gas and electric rates beginning January 1, 2020, assuming a Commission decision is issued in 2019, and in time to allow PG&E to implement rates on January 1, 2020. As authorized under current tariffs, PG&E will record the gas distribution, gas transmission and storage, electric distribution, and electric generation revenue requirements reflecting the 2020 Cost of Capital in the appropriate balancing and memorandum accounts as of January 1, 2020.

---

<sup>4/</sup> PG&E's 2019 Gas Transmission and Storage (GT&S) Rate Case and 2020 General Rate Case Phase I are both pending before the Commission and are likely to result in changes to the currently authorized rate base.

Rates for each of these revenue requirements will be set based on the then-current approved revenue allocation and rate design methods separately approved for each revenue requirement.

If the decision is not issued in time for a January 1, 2020 rate change, PG&E's gas and electric rates would be changed for cost of capital with the next electric and gas rate changes after a final Commission decision in this case.

Changes applicable to unbundled gas and electric rates (i.e., Core Transport, Direct Access and Community Choice Aggregation) would be made at the same time as changes to bundled electric and gas customer rates. As a result of implementation timing, the ultimate net electric and gas revenue changes incorporating the authorized 2020 Cost of Capital may be different from those reflected in this Application.

## **V. COMPLIANCE WITH THE COMMISSION'S RULES OF PRACTICE AND PROCEDURE**

### **A. Legal Name and Principal Place of Business (Rule 2.1(a))**

PG&E is, and since October 10, 1905, has been, an operating public utility corporation organized under California law. It is engaged principally in the business of furnishing electric and gas service in northern and central California.

PG&E's principal place of business is in San Francisco, California. Its address is 77 Beale B30A, San Francisco, CA 94105. Its telephone number is (415) 974-2248 and its attorneys in this matter are Steven W. Frank and Shirley A. Woo.

### **B. Correspondence and Communication (Rule 2.1(b))**

All correspondence, communications and service of papers regarding this Application should be directed to:

Shirley Woo, Law Department Pacific Gas and Electric Company 77 Beale B30A San Francisco, CA 94105	Steve Koenig, Regulatory Affairs Pacific Gas and Electric Company 77 Beale 23 <sup>rd</sup> floor San Francisco, CA 94105
Telephone: (415) 973-2248	Telephone: (415) 973-0255
Facsimile: (415) 973-5520	E-mail: Steve.Koenig@pge.com
E-mail: shirley.woo@pge.com	

**C. Articles of Incorporation (Rule 2.2)**

A certified copy of PG&E's Restated Articles of Incorporation, (the Articles), effective April 12, 2004, was filed with the Commission on May 3, 2004, with PG&E's Application 04-05-005. The Articles are incorporated herein by reference.

**D. Balance Sheet and Income Statement (Rule 3.2(a)(2))**

PG&E's most recent balance sheet and income statement were filed on March 27, 2019, in Application 19-03-020 and are incorporated herein by reference.

**E. Statement of Presently Effective Rates (Rule 3.2(a)(2))**

PG&E's presently effective gas and electric rates are attached as Exhibit A to this Application.

**F. Statement of Proposed Changes (Rule 3.2(a)(3))**

The proposed changes are set forth in Exhibits B and C of this Application.

**G. General Description of Property and Equipment (Rule 3.2(a)(4))**

As of December 31, 2017, PG&E's operative plant and equipment, and applicable depreciation reserves, consistent with PG&E's 2020 GRC filing, is as follows:

(\$ In Thousands)

2017 Weighted Average	Electric	Gas	Common
Operative Plant	55,286,624	16,870,589	3,455,061
Depreciation Reserve	25,440,763	7,515,388	1,184,235

A detailed description of PG&E's properties and equipment was included in PG&E's exhibits submitted in support of PG&E's 2020 GRC filing, A.18-12-009, filed on December 13, 2018, which is incorporated herein by reference.

**H. Summary of Earnings and Revenues (Rule 3.2(a)(5) and Rule 3.2(a)(6))**

A summary of 2018 recorded revenues, rate bases, expenses and rate of return for PG&E's Electric Department, Gas Department, and all operating departments is attached as Exhibit D.

PG&E also presents Table 1 below, an estimate of returns as currently authorized.

Table 1

Estimated Returns at Present Rates

2020				
	Electric Distribution	Generation	Gas Distribution	Gas Transmission
Return on Rate Base	4.5%	5.5%	6.4%	4.1%
Return on Common Equity	4.2%	6.0%	7.8%	3.4%

PG&E used the authorized cost of capital adopted in D.17-07-005 in its earnings calculations, consistent with Commission requirements in D.07-07-004, *mimeo*, p. A-30, paragraph 2.

**I. Statement of Election of Method of Computing Depreciation Deduction for Federal Income Tax. (Rule 3.2 (a)(7))**

A statement of the method of computing the depreciation deduction for federal income tax purposes was included in Exhibit E, to PG&E's 2020 GRC Phase I Application, A.18-12-009, which is incorporated herein by reference.

**J. Most Recent Proxy Statement (Rule 3.2(a)(8))**

PG&E's most recent proxy statement dated April 10, 2018, was filed in Application 18-05-014 on May 15, 2018 and is incorporated herein by reference. As of the date of this application, PG&E and PG&E Corporation have not yet filed with the SEC their joint proxy statement for their 2019 annual meeting of shareholders.

**K. Type of Rate Change Requested (Rule 3.2(a)(10))**

The proposed rate change reflects changes in PG&E's cost of capital for equity, debt, and maintenance of the currently authorized capital structure.

**L. Categorization (Rule 2.1(c))**

PG&E proposes that this Application be categorized as a "ratesetting" proceeding within the meaning of Rule 1.3(f) of the Commission's Rules of Practice and Procedure.

**M. Need for Hearing (Rule 2.1(c))**

PG&E anticipates that evidentiary hearings will be requested. PG&E's proposed schedule is set forth in subsection R, below.

**N. Statutory Authority**

PG&E submits this Application pursuant to Public Utilities Code Sections 451, 454, 728, 729, 740.4, and 795, the Commission's Rules of Practice and Procedure, and prior decisions, orders, and resolutions of the Commission.

**O. Issues to be considered (Rule 2.1(c))**

The principal issues to be considered are:

1. What should PG&E's authorized rate of return on equity capital be for its electric distribution and generation operations, and its gas distribution, transmission and storage operations in 2020.
2. What should PG&E's authorized cost of preferred stock be for 2020.
3. What should PG&E's authorized cost of debt be for 2020.
4. Should PG&E's adopted utility capital structure for 2020 be 52 percent equity, 47.5 percent debt and 0.5 percent preferred stock.
5. Should the Commission re-authorize an Annual Cost of Capital Adjustment Mechanism as presented in PG&E's testimony.
6. Should PG&E's proposal for the treatment of customer deposits be approved.
7. Should PG&E be ordered to file a new cost of capital application when it emerges from Chapter 11 bankruptcy proceedings.

**P. Relevant Safety Considerations (Rule 2.1(c))**

In D. 16-01-017, the Commission adopted an amendment to Rule 2.1(c) requiring utilities' applications to clearly state the relevant safety considerations. The Commission has previously explained that the "safe and reliable provision of utilities at predictable rates promotes public safety." (D. 14-12-053, at pages 12-13.) Safety is the highest priority for PG&E in all its activities. PG&E has considered safety in connection with the 2020 Cost of Capital application

and proposal. Because this application is to authorize a cost of capital sufficient to attract capital, which PG&E must do to provide safe and reliable utility service, PG&E believes its proposals will support the provision of safe and reliable service.

**Q. Notice and Service of Application (Rule 3.2(b)-(d))**

Within 20 days after filing this Application, PG&E will mail a notice stating in general terms the proposed revenues, rate changes and ratemaking mechanisms required in this Application to the parties listed in Exhibit E, including the State of California and cities and counties served by PG&E. The application and testimony are also being served on the parties of record in PG&E's 2020 GRC I, A.18-12-009, the most recent Cost of Capital case, A.12-04-018, and related matters, and PG&E's most recent GT&S case, A.17-11-009.

PG&E will publish in newspapers of general circulation in each county in its service area a notice of filing this application. Within 45 days after filing this Application, PG&E will also include notices with the regular bills mailed to all customers affected by the proposed changes.

**R. Proposed Schedule (Rule 2.1 (c))**

Activity	Date
Application filed	April 22, 2019
Protests due	May 22, 2019
Prehearing Conference	By June 3, 2019
Public Advocates/Intervenor testimony	July 30, 2019
Rebuttal testimony	August 22, 2019
Evidentiary hearings	September 16, 2019
Briefs	To be determined

## **VI. RELIEF REQUESTED**

PG&E has served this application, as stated in the accompanying certificate of service. PG&E is also serving its testimony with this application or providing access through a notice of availability. PG&E is ready to proceed with its showing in support of its proposals set forth herein.

WHEREFORE, Pacific Gas and Electric Company respectfully requests the Commission to issue appropriate orders:

1. Authorizing 16 percent as the cost of equity capital for PG&E's electric distribution and generation operations, and its gas distribution, transmission and storage operations in 2020, in the absence of mitigation of PG&E's increased risk. In the alternative, authorizing PG&E's requested cost of equity in an amendment to this application, which would be submitted in response to actions by the Commission and the California Legislature that substantially mitigate the risk for PG&E.
2. Authorizing 5.52 percent as PG&E's cost of preferred stock for 2020.
3. Authorizing 5.16 percent as PG&E's cost of debt for 2020. In the alternative, authorizing PG&E's requested cost of debt in an amendment to this application, which would be submitted in response to actions by the Commission and the California Legislature that substantially mitigate the risk for PG&E.
4. Authorizing a utility capital structure for 2020 of 52 percent equity, 47.5 percent debt and 0.5 percent preferred stock. In the alternative, authorizing PG&E's requested capital structure in an amendment to this application, which would be submitted in response to actions by the Commission and the California Legislature that substantially mitigate the risk for PG&E.
5. Authorizing continuation of the Annual Cost of Capital Adjustment Mechanism.
6. Authorizing continuation of PG&E's current treatment of customer deposits.



7. Granting PG&E such other and further relief as the Commission finds to be just and reasonable.

Dated at San Francisco, California, this 22nd day of April 2019.

PACIFIC GAS AND ELECTRIC COMPANY

*/s/ Nicolas M. Bijur*

---

NICOLAS M. BIJUR  
Vice President and Treasurer  
Pacific Gas and Electric Company

Respectfully Submitted,

By: */s/ Shirley A. Woo*  
SHIRLEY A. WOO

77 Beale Street  
San Francisco, CA 94105  
Telephone: (415) 973-2248  
Facsimile: (415) 973-5520  
E-Mail: Shirley.Woo@pge.com

Attorneys for  
PACIFIC GAS AND ELECTRIC  
COMPANY

April 22, 2019

## VERIFICATION

I, the undersigned, say:

I am an officer of PACIFIC GAS AND ELECTRIC COMPANY, a California corporation, and am authorized, pursuant to Code of Civil Procedure Section 466, paragraph 3, to make this verification for and on behalf of said corporation, and I make this verification for that reason; I have read the foregoing pleading and I am informed and believe that the matters therein are true and on that ground, I allege that the matters stated therein are true.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Executed at San Francisco, California on April 22, 2019.

/s/ Nicolas M. Bijur  
NICOLAS M. BIJUR  
Vice President and Treasurer  
Pacific Gas and Electric Company

# EXHIBIT A

PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES as of  
Friday, March 01, 2019

RESIDENTIAL RATES

LINE NO.		3/1/19 RATES SUMMER	3/1/19 RATES WINTER	LINE NO.
1	SCHEDULE E-1			1
2	MINIMUM BILL (\$/MONTH)	\$10.00	\$10.00	2
3	ES UNIT DISCOUNT (\$/UNIT/MONTH)	\$0.95	\$0.95	3
4	ET UNIT DISCOUNT (\$/UNIT/MONTH)	\$1.88	\$1.88	4
5	ES/ET MINIMUM RATE LIMITER (\$/KWH)	\$0.05190	\$0.05190	5
6	ENERGY (\$/KWH)			6
7	TIER 1 (Baseline Quantity - BQ)	\$0.21775	\$0.21775	7
8	TIER 2 > 100% of BQ	\$0.27402	\$0.27402	8
10	High User Surcharge (HUS) > 400% of BQ	\$0.48009	\$0.48009	9
12	SCHEDULE EL-1 (CARE)			10
13	MINIMUM BILL (\$/MONTH)	\$5.00	\$5.00	11
14	ENERGY (\$/KWH)			12
15	TIER 1 (Baseline Quantity - BQ)	\$0.13947	\$0.13947	13
16	TIER 2 > 100% of BQ	\$0.17528	\$0.17528	14
17	High User Surcharge (HUS) > 400% of BQ	\$0.30709	\$0.30709	15

PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES as of  
Friday, March 01, 2019

RESIDENTIAL RATES

LINE NO.		3/1/19 RATES SUMMER	3/1/19 RATES WINTER	LINE NO.
1	SCHEDULE E-6 / EM-TOU			1
2	MINIMUM BILL (\$/MONTH)	\$10.00	\$10.00	2
3	E-6 METER CHARGE (\$/MONTH)	\$7.70	\$7.70	3
4	ON-PEAK ENERGY (\$/KWH)			4
5	TIER 1 (Baseline Quantity - BQ)	\$0.37729		5
6	TIER 2 > 100% of BQ	\$0.45730		6
7	PART-PEAK ENERGY (\$/KWH)			7
8	TIER 1 (Baseline Quantity - BQ)	\$0.26202	\$0.20641	8
9	TIER 2 > 100% of BQ	\$0.34203	\$0.28642	9
10	OFF-PEAK ENERGY (\$/KWH)			10
11	TIER 1 (Baseline Quantity - BQ)	\$0.18524	\$0.18958	11
12	TIER 2 > 100% of BQ	\$0.26525	\$0.26959	12
13	SCHEDULE EL-6 / EML-TOU			13
14	MINIMUM BILL (\$/MONTH)	\$5.00	\$5.00	14
15	EL-6 METER CHARGE(\$/MONTH)	\$6.16	\$6.16	15
16	ON-PEAK ENERGY (\$/KWH)			16
17	TIER 1 (Baseline Quantity - BQ)	\$0.25627		17
18	TIER 2 > 100% of BQ	\$0.29604		18
19	PART-PEAK ENERGY (\$/KWH)			19
20	TIER 1 (Baseline Quantity - BQ)	\$0.17177	\$0.13101	20
21	TIER 2 > 100% of BQ	\$0.21154	\$0.17078	21
22	OFF-PEAK ENERGY (\$/KWH)			22
23	TIER 1 (Baseline Quantity - BQ)	\$0.11549	\$0.11866	23
24	TIER 2 > 100% of BQ	\$0.15526	\$0.15843	24

PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES as of  
Friday, March 01, 2019

RESIDENTIAL RATES

LINE NO.		3/1/19 RATES SUMMER	3/1/19 RATES WINTER	LINE NO.
1	SCHEDULE EV: RATE A			1
2	MINIMUM BILL (\$/MONTH)	\$10.00	\$10.00	2
3	ON-PEAK ENERGY (\$/KWH)	\$0.48889	\$0.34021	3
4	PART-PEAK ENERGY (\$/KWH)	\$0.26503	\$0.20726	4
5	OFF-PEAK ENERGY (\$/KWH)	\$0.12559	\$0.12866	5
6	SCHEDULE EV: RATE B			6
7	EV-B METER CHARGE (\$/MONTH)	\$1.50	\$1.50	7
8	ON-PEAK ENERGY (\$/KWH)	\$0.48220	\$0.33308	8
9	PART-PEAK ENERGY (\$/KWH)	\$0.26168	\$0.20370	9
10	OFF-PEAK ENERGY (\$/KWH)	\$0.12511	\$0.12815	10

PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES as of  
Friday, March 01, 2019

SMALL L&P RATES

LINE NO.		3/1/19 RATES SUMMER	3/1/19 RATES WINTER	LINE NO.
1	SCHEDULE A-1			1
2	CUSTOMER CHARGE: SINGLE-PHASE (\$/MO.)	\$10.00	\$10.00	2
3	CUSTOMER CHARGE: POLYPHASE (\$/MO.)	\$20.00	\$20.00	3
4	ENERGY (\$/KWH)	\$0.26361	\$0.20307	4
5	SCHEDULE A-1 TOU			5
6	CUSTOMER CHARGE: SINGLE-PHASE (\$/MO.)	\$10.00	\$10.00	6
7	CUSTOMER CHARGE: POLYPHASE (\$/MO.)	\$20.00	\$20.00	7
8	ENERGY (\$/KWH)			8
9	ON-PEAK	\$0.27760		9
10	PART-PEAK	\$0.25395	\$0.23335	10
11	OFF-PEAK ENERGY	\$0.22659	\$0.21243	11
12	SCHEDULE A-6			12
13	CUSTOMER CHARGE: SINGLE-PHASE (\$/MO.)	\$10.00	\$10.00	13
14	CUSTOMER CHARGE: POLYPHASE (\$/MO.)	\$20.00	\$20.00	14
15	METER CHARGE (\$/MONTH)	\$6.12	\$6.12	15
16	METER CHARGE - RATE W (\$/MONTH)	\$1.80	\$1.80	16
17	METER CHARGE - RATE X (\$/MONTH)	\$6.12	\$6.12	17
18	ENERGY (\$/KWH)			18
19	ON-PEAK	\$0.57397		19
20	PART-PEAK	\$0.27715	\$0.22062	20
21	OFF-PEAK ENERGY	\$0.20555	\$0.20237	21
22	SCHEDULE A-15			22
23	CUSTOMER CHARGE (\$/MONTH)	\$10.00	\$10.00	23
24	FACILITY CHARGE (\$/MONTH)	\$25.00	\$25.00	24
25	ENERGY (\$/KWH)	\$0.26361	\$0.20307	25
26	SCHEDULE TC-1			26
27	CUSTOMER CHARGE (\$/MONTH)	\$10.00	\$10.00	27
28	ENERGY (\$/KWH)	\$0.19801	\$0.19801	28

PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES as of  
Friday, March 01, 2019

MEDIUM L&P RATES

LINE NO.		3/1/19 RATES SUMMER	3/1/19 RATES WINTER	LINE NO.
1	SCHEDULE A-10			1
2	CUSTOMER CHARGE (\$/MONTH)	\$140.00	\$140.00	2
3	MAXIMUM DEMAND CHARGE (\$/KW/MO)			3
4	SECONDARY VOLTAGE	\$18.80	\$10.63	4
5	PRIMARY VOLTAGE	\$17.66	\$10.87	5
6	TRANSMISSION VOLTAGE	\$11.74	\$7.96	6
7	ENERGY CHARGE (\$/KWH)			7
8	SECONDARY VOLTAGE	\$0.17608	\$0.13532	8
9	PRIMARY VOLTAGE	\$0.16425	\$0.13047	9
10	TRANSMISSION VOLTAGE	\$0.12995	\$0.10918	10
11	SCHEDULE A-10 TOU			11
12	CUSTOMER CHARGE (\$/MONTH)	\$140.00	\$140.00	12
13	MAXIMUM DEMAND CHARGE (\$/KW/MO)			13
14	SECONDARY VOLTAGE	\$18.80	\$10.63	14
15	PRIMARY VOLTAGE	\$17.66	\$10.87	15
16	TRANSMISSION VOLTAGE	\$11.74	\$7.96	16
17	ENERGY CHARGE (\$/KWH)			17
18	SECONDARY			18
19	ON PEAK	\$0.22980		19
20	PARTIAL PEAK	\$0.17467	\$0.14528	20
21	OFF-PEAK	\$0.14661	\$0.12822	21
22	PRIMARY			22
23	ON PEAK	\$0.21599		23
24	PARTIAL PEAK	\$0.16543	\$0.14170	24
25	OFF-PEAK	\$0.13881	\$0.12582	25
26	TRANSMISSION			26
27	ON PEAK	\$0.17724		27
28	PARTIAL PEAK	\$0.13036	\$0.11857	28
29	OFF-PEAK	\$0.10506	\$0.10400	29



**PACIFIC GAS AND ELECTRIC COMPANY**  
**PRESENT ELECTRIC RATES as of**  
**Friday, March 01, 2019**

E-19 FIRM RATES

LINE NO.		3/1/19 RATES SUMMER	3/1/19 RATES WINTER	LINE NO.
1	SCHEDULE E-19 T FIRM			1
2	CUSTOMER CHARGE > 500 KW (\$/MONTH)	\$1,800.00	\$1,800.00	2
3	CUSTOMER CHARGE < 500 KW (\$/MONTH)	\$140.00	\$140.00	3
4	TOU METER CHARGE - RATES V & X (\$/MONTH)	\$140.00	\$140.00	4
5	TOU METER CHARGE - RATE W (\$/MONTH)	\$140.00	\$140.00	5
6	DEMAND CHARGE (\$/KW/MONTH)			6
7	ON-PEAK	\$13.89		7
8	PARTIAL PEAK	\$3.48	\$0.00	8
9	MAXIMUM	\$9.40	\$9.40	9
10	ENERGY CHARGE (\$/KWH)			10
11	ON-PEAK	\$0.11266		11
12	PARTIAL-PEAK	\$0.09856	\$0.10078	12
13	OFF-PEAK	\$0.07990	\$0.08645	13
14	SCHEDULE E-19 P FIRM			14
15	CUSTOMER CHARGE > 500 KW (\$/MONTH)	\$1,000.00	\$1,000.00	15
16	CUSTOMER CHARGE < 500 KW (\$/MONTH)	\$140.00	\$140.00	16
17	TOU METER CHARGE - RATES V & X (\$/MONTH)	\$140.00	\$140.00	17
18	TOU METER CHARGE - RATE W (\$/MONTH)	\$140.00	\$140.00	18
19	DEMAND CHARGE (\$/KW/MONTH)			19
20	ON-PEAK	\$18.55		20
21	PARTIAL PEAK	\$5.06	\$0.16	21
22	MAXIMUM	\$14.97	\$14.97	22
23	ENERGY CHARGE (\$/KWH)			23
24	ON-PEAK	\$0.15308		24
25	PARTIAL-PEAK	\$0.11012	\$0.10431	25
26	OFF-PEAK	\$0.08249	\$0.08932	26
27	SCHEDULE E-19 S FIRM			27
28	CUSTOMER CHARGE > 500 KW (\$/MONTH)	\$600.00	\$600.00	28
29	CUSTOMER CHARGE < 500 KW (\$/MONTH)	\$140.00	\$140.00	29
30	TOU METER CHARGE - RATES V & X (\$/MONTH)	\$140.00	\$140.00	30
31	TOU METER CHARGE - RATE W (\$/MONTH)	\$140.00	\$140.00	31
32	DEMAND CHARGE (\$/KW/MONTH)			32
33	ON-PEAK	\$20.78		33
34	PARTIAL PEAK	\$5.76	\$0.13	34
35	MAXIMUM	\$18.30	\$18.30	35
36	ENERGY CHARGE (\$/KWH)			36
37	ON-PEAK	\$0.16483		37
38	PARTIAL-PEAK	\$0.11931	\$0.11308	38
39	OFF-PEAK	\$0.08917	\$0.09665	39

PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES as of  
Friday, March 01, 2019

E-20 FIRM RATES

LINE NO.		3/1/19 RATES SUMMER	3/1/19 RATES WINTER	LINE NO.
1	SCHEDULE E-20 T FIRM			1
2	CUSTOMER CHARGE (\$/MONTH)-FIRM	\$2,000.00	\$2,000.00	2
3	DEMAND CHARGE (\$/KW/MONTH)			3
4	ON-PEAK	\$17.98		4
5	PARTIAL PEAK	\$4.28	\$0.00	5
6	MAXIMUM	\$8.34	\$8.34	6
7	ENERGY CHARGE (\$/KWH)			7
8	ON-PEAK	\$0.10856		8
9	PARTIAL-PEAK	\$0.09472	\$0.09690	9
10	OFF-PEAK	\$0.07640	\$0.08283	10
11	SCHEDULE E-20 P FIRM			11
12	CUSTOMER CHARGE (\$/MONTH)	\$1,500.00	\$1,500.00	12
13	DEMAND CHARGE (\$/KW/MONTH)			13
14	ON-PEAK	\$21.47		14
15	PARTIAL PEAK	\$5.71	\$0.14	15
16	MAXIMUM	\$15.77	\$15.77	16
17	ENERGY CHARGE (\$/KWH)			17
18	ON-PEAK	\$0.15608		18
19	PARTIAL-PEAK	\$0.11047	\$0.10446	19
20	OFF-PEAK	\$0.08242	\$0.08931	20
21	SCHEDULE E-20 S FIRM			21
22	CUSTOMER CHARGE (\$/MONTH)	\$1,200.00	\$1,200.00	22
23	DEMAND CHARGE (\$/KW/MONTH)			23
24	ON-PEAK	\$20.04		24
25	PARTIAL PEAK	\$5.54	\$0.05	25
26	MAXIMUM	\$18.17	\$18.17	26
27	ENERGY CHARGE (\$/KWH)			27
28	ON-PEAK	\$0.15449		28
29	PARTIAL-PEAK	\$0.11305	\$0.10702	29
30	OFF-PEAK	\$0.08459	\$0.09161	30

PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES as of  
Friday, March 01, 2019

OIL AND GAS EXTRACTION RATES

LINE NO.		3/1/19 RATES SUMMER	3/1/19 RATES WINTER	LINE NO.
1	SCHEDULE E-37			1
2	CUSTOMER CHARGE (\$/MONTH)	\$36.36	\$36.36	2
3	TOU METER CHARGE - RATE W (\$/MONTH)	\$1.20	\$1.20	3
4	TOU METER CHARGE - RATE X (\$/MONTH)	\$6.00	\$6.00	4
5	ON PEAK DEMAND CHARGE (\$/KW/MO)	\$10.97		5
6	MAXIMUM DEMAND CHARGE (\$/KW/MO)			6
7	SECONDARY VOLTAGE	\$17.10	\$6.61	7
8	PRIMARY VOLTAGE DISCOUNT	\$1.92	\$0.20	8
9	TRANSMISSION VOLTAGE DISCOUNT	\$12.78	\$5.69	9
10	ENERGY (\$/KWH)			10
11	ON-PEAK	\$0.22544		11
12	PART-PEAK		\$0.11623	12
13	OFF-PEAK	\$0.09379	\$0.08452	13

PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES as of  
Friday, March 01, 2019

STANDBY RATES

LINE NO.		3/1/19 RATES SUMMER	3/1/19 RATES WINTER	LINE NO.
1	SCHEDULE S - TRANSMISSION			1
2	CONTRACT CAPACITY CHARGE (\$/KW/MO.)	\$1.34	\$1.34	2
3	EFFECTIVE RESERVATION CHARGE (\$/KW/MO.)	\$1.14	\$1.14	3
4	ENERGY (\$/KWH)			4
5	ON-PEAK	\$0.13751		5
6	PART-PEAK	\$0.12248	\$0.12484	6
7	OFF-PEAK	\$0.10257	\$0.10955	7
8	SCHEDULE S - PRIMARY			8
9	CONTRACT CAPACITY CHARGE (\$/KW/MO.)	\$7.18	\$7.18	9
10	EFFECTIVE RESERVATION CHARGE (\$/KW/MO.)	\$6.10	\$6.10	10
11	ENERGY (\$/KWH)			11
12	ON-PEAK	\$0.59682		12
13	PART-PEAK	\$0.28083	\$0.15180	13
14	OFF-PEAK	\$0.11992	\$0.12821	14
15	SCHEDULE S - SECONDARY			15
16	CONTRACT CAPACITY CHARGE (\$/KW/MO.)	\$7.18	\$7.18	16
17	EFFECTIVE RESERVATION CHARGE (\$/KW/MO.)	\$6.10	\$6.10	17
18	ENERGY (\$/KWH)			18
19	ON-PEAK	\$0.59567		19
20	PART-PEAK	\$0.27968	\$0.15065	20
21	OFF-PEAK	\$0.11877	\$0.12706	21

**PACIFIC GAS AND ELECTRIC COMPANY**  
**PRESENT ELECTRIC RATES as of**  
**Friday, March 01, 2019**

STANDBY RATES

LINE NO.		3/1/19 RATES SUMMER	3/1/19 RATES WINTER	LINE NO.
1	SCHEDULE S CUSTOMER AND METER CHARGES			1
2	RESIDENTIAL			2
3	CUSTOMER CHARGE (\$/MO)	\$5.00	\$5.00	3
4	TOU METER CHARGE (\$/MO)	\$3.90	\$3.90	4
5	AGRICULTURAL			5
6	CUSTOMER CHARGE (\$/MO)	\$27.60	\$27.60	6
7	TOU METER CHARGE (\$/MO)	\$6.00	\$6.00	7
8	SMALL LIGHT AND POWER (less than or equal to 50 kW)			8
9	SINGLE PHASE CUSTOMER CHARGE (\$/MO)	\$20.00	\$20.00	9
10	POLY PHASE CUSTOMER CHARGE (\$/MO)	\$30.00	\$30.00	10
11	METER CHARGE (\$/MO)	\$6.12	\$6.12	11
12	MEDIUM LIGHT AND POWER (>50 kW, <500 kW)			12
13	CUSTOMER CHARGE (\$/MO)	\$140.00	\$140.00	13
14	METER CHARGE (\$/MO)	\$5.40	\$5.40	14
15	MEDIUM LIGHT AND POWER (>500kW)			15
16	TRANSMISSION CUSTOMER CHARGE (\$/MO)	\$1,800.00	\$1,800.00	16
17	PRIMARY CUSTOMER CHARGE (\$/MO)	\$1,000.00	\$1,000.00	17
18	SECONDARY CUSTOMER CHARGE (\$/MO)	\$600.00	\$600.00	18
19	LARGE LIGHT AND POWER (> 1000 kW)			19
20	TRANSMISSION CUSTOMER CHARGE (\$/MO)	\$2,000.00	\$2,000.00	20
21	PRIMARY CUSTOMER CHARGE (\$/MO)	\$1,500.00	\$1,500.00	21
22	SECONDARY CUSTOMER CHARGE (\$/MO)	\$1,200.00	\$1,200.00	22
23	REDUCED CUSTOMER CHARGES (\$/MO)			23
24	SMALL LIGHT AND PWR ( < 50 kW)	\$7.75	\$7.75	24
25	MED LIGHT AND PWR (Res Capacity >75 kW and <500 kW) S	\$52.00	\$52.00	25
26	MED LIGHT AND PWR (Res Capacity > 500 kW and < 1000 kW) S	\$177.39	\$177.39	26

**PACIFIC GAS AND ELECTRIC COMPANY**  
**PRESENT ELECTRIC RATES as of**  
**Friday, March 01, 2019**

AGRICULTURAL RATES

LINE NO.		3/1/19 RATES SUMMER	3/1/19 RATES WINTER	LINE NO.
1	SCHEDULE AG-1A			1
2	CUSTOMER CHARGE (\$/MONTH)	\$17.47	\$17.47	2
3	CONNECTED LOAD CHARGE (\$/KW/MONTH)	\$8.74	\$1.67	3
4	ENERGY CHARGE (\$/KWH)	\$0.29785	\$0.22746	4
5	SCHEDULE AG-RA			5
6	CUSTOMER CHARGE - RATES A & D (\$/MONTH)	\$17.47	\$17.47	6
7	METER CHARGE - RATE A (\$/MONTH)	\$6.80	\$6.80	7
8	METER CHARGE - RATE D (\$/MONTH)	\$2.00	\$2.00	8
9	CONNECTED LOAD CHARGE (\$/KW/MONTH)	\$7.78	\$1.27	9
10	ENERGY (\$/KWH)			10
11	ON-PEAK	\$0.57503		11
12	PART-PEAK		\$0.19993	12
13	OFF-PEAK	\$0.19584	\$0.16287	13
14	SCHEDULE AG-VA			14
15	CUSTOMER CHARGE - RATES A & D (\$/MONTH)	\$17.47	\$17.47	15
16	METER CHARGE - RATE A (\$/MONTH)	\$6.80	\$6.80	16
17	METER CHARGE - RATE D (\$/MONTH)	\$2.00	\$2.00	17
18	CONNECTED LOAD CHARGE (\$/KW/MONTH)	\$7.84	\$1.32	18
19	ENERGY (\$/KWH)			19
20	ON-PEAK	\$0.53742		20
21	PART-PEAK		\$0.20163	21
22	OFF-PEAK	\$0.19269	\$0.16366	22
23	SCHEDULE AG-4A			23
24	CUSTOMER CHARGE - RATES A & D (\$/MONTH)	\$17.47	\$17.47	24
25	METER CHARGE - RATE A (\$/MONTH)	\$6.80	\$6.80	25
26	METER CHARGE - RATE D (\$/MONTH)	\$2.00	\$2.00	26
27	CONNECTED LOAD CHARGE (\$/KW/MONTH)	\$8.89	\$1.34	27
28	ENERGY (\$/KWH)			28
29	ON-PEAK	\$0.48048		29
30	PART-PEAK		\$0.21351	30
31	OFF-PEAK	\$0.20604	\$0.17157	31
32	SCHEDULE AG-5A			32
33	CUSTOMER CHARGE - RATES A & D (\$/MONTH)	\$17.47	\$17.47	33
34	METER CHARGE - RATE A (\$/MONTH)	\$6.80	\$6.80	34
35	METER CHARGE - RATE D (\$/MONTH)	\$2.00	\$2.00	35
36	CONNECTED LOAD CHARGE (\$/KW/MONTH)	\$13.05	\$2.43	36
37	ENERGY (\$/KWH)			37
38	ON-PEAK	\$0.33127		38
39	PART-PEAK		\$0.17453	39
40	OFF-PEAK	\$0.16533	\$0.14642	40

PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES as of  
Friday, March 01, 2019  
AGRICULTURAL RATES

LINE NO.		3/1/19 RATES SUMMER	3/1/19 RATES WINTER	LINE NO.
1	SCHEDULE AG-1B			1
2	CUSTOMER CHARGE (\$/MONTH)	\$23.23	\$23.23	2
3	MAXIMUM DEMAND CHARGE (\$/KW/MONTH)			3
4	SECONDARY VOLTAGE	\$12.81	\$2.58	4
5	PRIMARY VOLTAGE DISCOUNT	\$1.33	\$0.36	5
6	ENERGY CHARGE (\$/KWH)	\$0.25400	\$0.19577	6
7	SCHEDULE AG-RB			7
8	CUSTOMER CHARGE - RATES B & E (\$/MONTH)	\$23.23	\$23.23	8
9	METER CHARGE - RATE B (\$/MONTH)	\$6.00	\$6.00	9
10	METER CHARGE - RATE E (\$/MONTH)	\$1.20	\$1.20	10
11	ON-PEAK DEMAND CHARGE (\$/KW/MONTH)	\$4.12		11
12	MAXIMUM DEMAND CHARGE (\$/KW/MONTH)			12
13	SECONDARY VOLTAGE	\$10.65	\$2.14	13
14	PRIMARY VOLTAGE DISCOUNT	\$0.91	\$0.35	14
15	ENERGY CHARGE (\$/KWH)			15
16	ON-PEAK	\$0.52019		16
17	PART-PEAK		\$0.17379	17
18	OFF-PEAK	\$0.18569	\$0.14232	18
19	SCHEDULE AG-VB			19
20	CUSTOMER CHARGE - RATES B & E (\$/MONTH)	\$23.23	\$23.23	20
21	METER CHARGE - RATE B (\$/MONTH)	\$6.00	\$6.00	21
22	METER CHARGE - RATE E (\$/MONTH)	\$1.20	\$1.20	22
23	ON-PEAK DEMAND CHARGE (\$/KW/MONTH)	\$4.11		23
24	MAXIMUM DEMAND CHARGE (\$/KW/MONTH)			24
25	SECONDARY VOLTAGE	\$10.76	\$2.12	25
26	PRIMARY VOLTAGE DISCOUNT	\$0.99	\$0.33	26
27	ENERGY CHARGE (\$/KWH)			27
28	ON-PEAK	\$0.48462		28
29	PART-PEAK		\$0.17178	29
30	OFF-PEAK	\$0.18127	\$0.14120	30

**PACIFIC GAS AND ELECTRIC COMPANY**  
**PRESENT ELECTRIC RATES as of**  
**Friday, March 01, 2019**

AGRICULTURAL RATES

LINE NO.		3/1/19 RATES SUMMER	3/1/19 RATES WINTER	LINE NO.
1	SCHEDULE AG-4B			1
2	CUSTOMER CHARGE - RATES B & E (\$/MONTH)	\$23.23	\$23.23	2
3	METER CHARGE - RATE B (\$/MONTH)	\$6.00	\$6.00	3
4	METER CHARGE - RATE E (\$/MONTH)	\$1.20	\$1.20	4
5	ON-PEAK DEMAND CHARGE (\$/KW/MONTH)	\$5.73		5
6	MAXIMUM DEMAND CHARGE (\$/KW/MONTH)			6
7	SECONDARY VOLTAGE	\$10.87	\$2.51	7
8	PRIMARY VOLTAGE DISCOUNT	\$1.15	\$0.39	8
9	ENERGY CHARGE (\$/KWH)			9
10	ON-PEAK	\$0.31427		10
11	PART-PEAK		\$0.16607	11
12	OFF-PEAK	\$0.16564	\$0.13860	12
13	SCHEDULE AG-4C			13
14	CUSTOMER CHARGE - RATES C & F (\$/MONTH)	\$65.44	\$65.44	14
15	METER CHARGE - RATE C (\$/MONTH)	\$6.00	\$6.00	15
16	METER CHARGE - RATE F (\$/MONTH)	\$1.20	\$1.20	16
17	DEMAND CHARGE (\$/KW/MONTH)			17
18	ON-PEAK	\$13.58		18
19	PART-PEAK	\$2.60	\$0.61	19
20	MAXIMUM	\$5.59	\$2.70	20
21	PRIMARY VOLTAGE DISCOUNT			21
22	ON-PEAK	\$1.49		22
23	MAXIMUM		\$0.34	23
24	TRANSMISSION VOLTAGE DISCOUNT			24
25	ON-PEAK	\$7.11		25
26	PART-PEAK	\$1.46	\$0.61	26
27	MAXIMUM	\$0.27	\$1.87	27
28	ENERGY CHARGE (\$/KWH)			28
29	ON-PEAK	\$0.28904		29
30	PART-PEAK	\$0.16633	\$0.13757	30
31	OFF-PEAK	\$0.12346	\$0.11847	31
32	SCHEDULE AG-5B			32
33	CUSTOMER CHARGE - RATES B & E (\$/MONTH)	\$36.36	\$36.36	33
34	METER CHARGE - RATE B (\$/MONTH)	\$6.00	\$6.00	34
35	METER CHARGE - RATE E (\$/MONTH)	\$1.20	\$1.20	35
36	ON-PEAK DEMAND CHARGE (\$/KW/MONTH)	\$10.97		36
37	MAXIMUM DEMAND CHARGE (\$/KW/MONTH)			37
38	SECONDARY VOLTAGE	\$17.10	\$6.61	38
39	PRIMARY VOLTAGE DISCOUNT	\$1.92	\$0.20	39
40	TRANSMISSION VOLTAGE DISCOUNT	\$12.78	\$5.69	40
41	ENERGY CHARGE (\$/KWH)			41
42	ON-PEAK	\$0.22544		42
43	PART-PEAK		\$0.11623	43
44	OFF-PEAK	\$0.09379	\$0.08452	44



PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES as of  
Friday, March 01, 2019

AGRICULTURAL RATES

LINE NO.		3/1/19 RATES SUMMER	3/1/19 RATES WINTER	LINE NO.
1	SCHEDULE AG-5C			1
2	CUSTOMER CHARGE - RATES C & F (\$/MONTH)	\$161.58	\$161.58	2
3	METER CHARGE - RATE C (\$/MONTH)	\$6.00	\$6.00	3
4	METER CHARGE - RATE F (\$/MONTH)	\$1.20	\$1.20	4
5	DEMAND CHARGE (\$/KW/MONTH)			5
6	ON-PEAK	\$18.78		6
7	PART-PEAK	\$3.89	\$1.01	7
8	MAXIMUM	\$6.79	\$4.24	8
9	PRIMARY VOLTAGE DISCOUNT			9
10	ON-PEAK	\$2.80		10
11	MAXIMUM		\$0.29	11
12	TRANSMISSION VOLTAGE DISCOUNT			12
13	ON-PEAK	\$11.69		13
14	PART-PEAK	\$1.72	\$1.01	14
15	MAXIMUM	\$3.86	\$2.77	15
16	ENERGY CHARGE (\$/KWH)			16
17	ON-PEAK	\$0.17317		17
18	PART-PEAK	\$0.11637	\$0.10157	18
19	OFF-PEAK	\$0.09524	\$0.09196	19
20	SCHEDULE AG-ICE			20
21	CUSTOMER CHARGE (\$/MONTH)	\$40.00	\$40.00	21
22	METER CHARGE (\$/MONTH)	\$6.00	\$6.00	22
23	ON-PEAK DEMAND CHARGE (\$/KW/MO)	\$6.95		23
24	MAXIMUM DEMAND CHARGE (\$/KW/MO)			24
25	SECONDARY	\$8.99	\$0.00	25
26	PRIMARY	\$7.85	\$0.00	26
27	TRANSMISSION	\$2.74	\$0.00	27
28	ENERGY CHARGE (\$/KWH)			28
29	ON-PEAK	\$0.18416		29
30	PART-PEAK	\$0.14365	\$0.14733	30
31	OFF-PEAK	\$0.07367	\$0.07367	31

PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES as of  
Friday, March 01, 2019

STREETLIGHTING RATES

LINE NO.		3/1/19 RATES SUMMER	3/1/19 RATES WINTER	LINE NO.
1	SCHEDULE LS-1			1
2	ENERGY CHARGE (\$/KWH)	\$0.17048	\$0.17048	2
3	SCHEDULE LS-2			3
4	ENERGY CHARGE (\$/KWH)	\$0.17048	\$0.17048	4
5	SCHEDULE LS-3			5
6	SERVICE CHARGE (\$/METER/MO.)	\$7.50	\$7.50	6
7	ENERGY CHARGE (\$/KWH)	\$0.17048	\$0.17048	7
8	SCHEDULE OL-1			8
9	ENERGY CHARGE (\$/KWH)	\$0.17747	\$0.17747	9

[illegible]

Pacific Gas & Electric Company														
2019-03-01 Rate Change - AET excl ERRR,GRC,ResRreform,T-BA,2018 Sales														
3/1/2019														
ELECTRIC RATES FOR SCHEDULES LS-1, LS-2 AND OL-1														
NOMINAL LAMP RATINGS			ALL NIGHT RATES PER LAMP PER MONTH										HALF-HOUR ADJ.	
LAMP	AVERAGE	INITIAL	SCHEDULE LS-2			SCHEDULE LS-1						LS-1 &		
WATTS	kW hr PER MONTH	LUMENS	A	C		A	B	C	D	E	F	OL-1	LS-2	OL-1
HIGH PRESSURE SODIUM VAPOR LAMPS														
AT 120 VOLTS														
35	15	2,150	\$2.764	--	--	--	--	--	--	--	--	--	\$0.116	--
50	21	3,800	\$3.787	--	--	--	--	--	--	--	--	--	\$0.163	--
70	29	5,800	\$5.151	\$8.938	\$11.793	--	\$11.624	\$14.275	\$14.608	\$12.772	\$12.273	--	\$0.225	\$0.234
100	41	9,500	\$7.197	\$10.984	\$13.839	--	\$13.670	\$16.321	\$16.654	\$14.818	\$14.402	--	\$0.318	\$0.331
150	60	16,000	\$10.436	\$14.223	\$17.078	--	\$16.909	\$19.560	\$19.893	\$18.057	--	--	\$0.465	--
200	80	22,000	\$13.845	--	\$20.487	--	\$20.318	\$22.969	\$23.302	\$21.466	--	--	\$0.620	--
250	100	26,000	\$17.255	--	\$23.897	--	\$23.728	\$26.379	\$26.712	\$24.876	--	--	\$0.775	--
400	154	46,000	\$26.461	--	\$33.103	--	\$32.934	\$35.585	\$35.918	\$34.082	--	--	\$1.193	--
AT 240 VOLTS														
50	24	3,800	\$4.299	--	--	--	--	--	--	--	--	--	\$0.186	--
70	34	5,800	\$6.003	\$9.790	\$12.645	--	--	\$15.127	\$15.460	\$13.624	--	--	\$0.263	--
100	47	9,500	\$8.220	\$12.007	\$14.862	--	\$14.693	\$17.344	\$17.677	\$15.841	--	--	\$0.364	--
150	69	16,000	\$11.970	\$15.757	\$18.612	--	\$18.443	\$21.094	\$21.427	\$19.591	--	--	\$0.535	--
200	81	22,000	\$14.016	\$17.803	\$20.658	--	\$20.489	\$23.140	\$23.473	\$21.637	\$21.501	--	\$0.628	\$0.653
250	100	25,500	\$17.255	\$21.042	\$23.897	--	\$23.728	\$26.379	\$26.712	\$24.876	\$24.873	--	\$0.775	\$0.807
310	119	37,000	\$20.494	--	--	--	--	--	--	--	--	--	\$0.922	--
360	144	45,000	\$24.756	--	--	--	--	--	--	--	--	--	\$1.116	--
400	154	46,000	\$26.461	\$30.248	\$33.103	--	\$32.934	\$35.585	\$35.918	\$34.082	\$34.456	--	\$1.193	\$1.242
METAL HALIDE LAMPS														
70	30	5,500	\$5.321	--	--	--	--	--	--	--	--	--	\$0.232	--
100	41	8,500	\$7.197	--	--	--	--	--	--	--	--	--	\$0.318	--
150	63	13,500	\$10.947	--	--	--	--	--	--	--	--	--	\$0.488	--
175	72	14,000	\$12.482	--	--	--	--	--	--	--	--	--	\$0.558	--
250	105	20,500	\$18.107	--	--	--	--	--	--	--	--	--	\$0.814	--
400	162	30,000	\$27.825	--	--	--	--	--	--	--	--	--	\$1.255	--
1,000	387	90,000	\$66.183	--	--	--	--	--	--	--	--	--	\$2.999	--
INDUCTION LAMPS														
23	9	1,840	\$1.741	--	--	--	--	--	--	--	--	--	\$0.070	--
35	13	2,450	\$2.423	--	--	--	--	--	--	--	--	--	\$0.101	--
40	14	2,200	\$2.594	--	--	--	--	--	--	--	--	--	\$0.109	--
50	18	3,500	\$3.276	--	--	--	--	--	--	--	--	--	\$0.140	--
55	19	3,000	\$3.446	--	--	--	--	--	--	--	--	--	\$0.147	--
65	24	5,525	\$4.299	--	--	--	--	--	--	--	--	--	\$0.186	--
70	27	6,500	\$4.810	--	--	--	--	--	--	--	--	--	\$0.209	--
80	28	4,500	\$4.980	--	--	--	--	--	--	--	--	--	\$0.217	--
85	30	4,800	\$5.321	--	--	--	--	--	--	--	--	--	\$0.232	--
100	36	8,000	\$6.344	--	--	--	--	--	--	--	--	--	\$0.279	--
120	42	8,500	\$7.284	--	--	--	--	--	--	--	--	--	\$0.322	--
135	48	9,450	\$8.390	--	--	--	--	--	--	--	--	--	\$0.372	--
150	51	10,900	\$8.901	--	--	--	--	--	--	--	--	--	\$0.395	--
165	58	12,000	\$10.095	--	--	--	--	--	--	--	--	--	\$0.449	--
200	72	19,000	\$12.482	--	--	--	--	--	--	--	--	--	\$0.558	--
All LEDs now on separate tab.														
Energy Rate @			\$0.17048	per kwh	LS-1 & LS-2									
			\$0.17747	per kwh	OL-1									
						Pole Painting Charge @			Per Pole Per Month					

[illegible]

Pacific Gas & Electric Company  
2019-03-01 Rate Change - AET exci ERRR,GRC,ResRerorm,T-BA,2018 Sales  
3/1/19

LIGHT EMITTING DIODE (LED) LAMPS  
TOTAL RATES (FACILITY + ENERGY CHGS)

NOMINAL LAMP RATINGS		ALL NIGHT RATES PER LAMP PER MONTH	HALF-HOUR ADJUSTMENT	ALL NIGHT RATES PER LAMP PER MONTH				
Lamp	Average kWh			PER LAMP PER MONTH				
Watts	Per Month			LS-1A	LS-1C	LS-1D	LS-1E	LS-1F
		LS-2A	LS-1A, C, E, F & LS-2A					
0.0-5.0	0.9	\$0.000	\$0.360	\$0.000	\$7.002	\$6.833	\$9.484	\$9.817
5.1-10.0	2.6	\$0.000	\$0.650	\$0.000	\$7.292	\$7.123	\$9.774	\$10.107
10.1-15.0	4.3	\$0.000	\$0.940	\$0.000	\$7.582	\$7.413	\$10.064	\$10.397
15.1-20.0	6.0	\$0.000	\$1.230	\$0.000	\$7.872	\$7.703	\$10.354	\$10.687
20.1-25.0	7.7	\$0.000	\$1.520	\$0.000	\$8.162	\$7.993	\$10.644	\$10.977
25.1-30.0	9.4	\$0.000	\$1.810	\$0.000	\$8.452	\$8.283	\$10.934	\$11.267
30.1-35.0	11.1	\$0.000	\$2.099	\$0.000	\$8.741	\$8.572	\$11.223	\$11.556
35.1-40.0	12.8	\$0.000	\$2.389	\$0.000	\$9.031	\$8.862	\$11.513	\$11.846
40.1-45.0	14.5	\$0.000	\$2.679	\$0.000	\$9.321	\$9.152	\$11.803	\$12.136
45.1-50.0	16.2	\$0.000	\$2.969	\$0.000	\$9.611	\$9.442	\$12.093	\$12.426
50.1-55.0	17.9	\$0.000	\$3.259	\$0.000	\$9.901	\$9.732	\$12.383	\$12.716
55.1-60.0	19.6	\$0.000	\$3.548	\$0.000	\$10.190	\$10.021	\$12.672	\$13.005
60.1-65.0	21.4	\$0.000	\$3.855	\$0.000	\$10.497	\$10.328	\$12.979	\$13.312
65.1-70.0	23.1	\$0.000	\$4.145	\$0.000	\$10.787	\$10.618	\$13.269	\$13.602
70.1-75.0	24.8	\$0.000	\$4.435	\$0.000	\$11.077	\$10.908	\$13.559	\$13.892
75.1-80.0	26.5	\$0.000	\$4.725	\$0.000	\$11.367	\$11.198	\$13.849	\$14.182
80.1-85.0	28.2	\$0.000	\$5.015	\$0.000	\$11.657	\$11.488	\$14.139	\$14.472
85.1-90.0	29.9	\$0.000	\$5.304	\$0.000	\$11.946	\$11.777	\$14.428	\$14.761
90.1-95.0	31.6	\$0.000	\$5.594	\$0.000	\$12.236	\$12.067	\$14.718	\$15.051
95.1-100.0	33.3	\$0.000	\$5.884	\$0.000	\$12.526	\$12.357	\$15.008	\$15.341
100.1-105.1	35.0	\$0.000	\$6.174	\$0.000	\$12.816	\$12.647	\$15.298	\$15.631
105.1-110.0	36.7	\$0.000	\$6.464	\$0.000	\$13.106	\$12.937	\$15.588	\$15.921
110.1-115.0	38.4	\$0.000	\$6.753	\$0.000	\$13.395	\$13.226	\$15.877	\$16.210
115.1-120.0	40.1	\$0.000	\$7.043	\$0.000	\$13.685	\$13.516	\$16.167	\$16.500
120.1-125.0	41.9	\$0.000	\$7.350	\$0.000	\$13.992	\$13.823	\$16.474	\$16.807
125.1-130.0	43.6	\$0.000	\$7.640	\$0.000	\$14.282	\$14.113	\$16.764	\$17.097
130.1-135.0	45.3	\$0.000	\$7.930	\$0.000	\$14.572	\$14.403	\$17.054	\$17.387
135.1-140.0	47.0	\$0.000	\$8.220	\$0.000	\$14.862	\$14.693	\$17.344	\$17.677
140.1-145.0	48.7	\$0.000	\$8.509	\$0.000	\$15.151	\$14.982	\$17.633	\$17.966
145.1-150.0	50.4	\$0.000	\$8.799	\$0.000	\$15.441	\$15.272	\$17.923	\$18.256
150.1-155.0	52.1	\$0.000	\$9.089	\$0.000	\$15.731	\$15.562	\$18.213	\$18.546
155.1-160.0	53.8	\$0.000	\$9.379	\$0.000	\$16.021	\$15.852	\$18.503	\$18.836
160.1-165.0	55.5	\$0.000	\$9.669	\$0.000	\$16.311	\$16.142	\$18.793	\$19.126
165.1-170.0	57.2	\$0.000	\$9.958	\$0.000	\$16.600	\$16.431	\$19.082	\$19.415
170.1-175.0	58.9	\$0.000	\$10.248	\$0.000	\$16.890	\$16.721	\$19.372	\$19.705
175.1-180.0	60.6	\$0.000	\$10.538	\$0.000	\$17.180	\$17.011	\$19.662	\$19.995

LIGHT EMITTING DIODE (LED) LAMPS CONVERSION (with LED Surcharge)					
ALL NIGHT RATES PER LAMP PER MONTH					HALF-HOUR ADJUSTMENT
LS-1A	LS-1C	LS-1D	LS-1E	LS-1F	LS-1A, C, D, E & F
\$7.286	\$7.002	\$6.833	\$22.252	\$9.817	\$10.100
\$7.587	\$7.292	\$7.123	\$22.542	\$10.107	\$10.401
\$7.889	\$7.582	\$7.413	\$22.832	\$10.397	\$10.703
\$8.191	\$7.872	\$7.703	\$23.122	\$10.687	\$11.005
\$8.493	\$8.162	\$7.993	\$23.412	\$10.977	\$11.307
\$8.794	\$8.452	\$8.283	\$23.702	\$11.267	\$11.608
\$9.096	\$8.741	\$8.572	\$23.991	\$11.556	\$11.910
\$9.398	\$9.031	\$8.862	\$24.281	\$11.846	\$12.212
\$9.699	\$9.321	\$9.152	\$24.571	\$12.136	\$12.513
\$10.001	\$9.611	\$9.442	\$24.861	\$12.426	\$12.815
\$10.303	\$9.901	\$9.732	\$25.151	\$12.716	\$13.117
\$10.604	\$10.190	\$10.021	\$25.440	\$13.005	\$13.418
\$10.924	\$10.497	\$10.328	\$25.747	\$13.312	\$13.738
\$11.226	\$10.787	\$10.618	\$26.037	\$13.602	\$14.040
\$11.527	\$11.077	\$10.908	\$26.327	\$13.892	\$14.341
\$11.829	\$11.367	\$11.198	\$26.617	\$14.182	\$14.643
\$12.131	\$11.657	\$11.488	\$26.907	\$14.472	\$14.945
\$12.432	\$11.946	\$11.777	\$27.196	\$14.761	\$15.246
\$12.734	\$12.236	\$12.067	\$27.486	\$15.051	\$15.548
\$13.036	\$12.526	\$12.357	\$27.776	\$15.341	\$15.850
\$13.337	\$12.816	\$12.647	\$28.066	\$15.631	\$16.151
\$13.639	\$13.106	\$12.937	\$28.356	\$15.921	\$16.453
\$13.941	\$13.395	\$13.226	\$28.645	\$16.210	\$16.755
\$14.243	\$13.685	\$13.516	\$28.935	\$16.500	\$17.057
\$14.562	\$13.992	\$13.823	\$29.242	\$16.807	\$17.376
\$14.864	\$14.282	\$14.113	\$29.532	\$17.097	\$17.678
\$15.165	\$14.572	\$14.403	\$29.822	\$17.387	\$17.979
\$15.467	\$14.862	\$14.693	\$30.112	\$17.677	\$18.281
\$15.769	\$15.151	\$14.982	\$30.401	\$17.966	\$18.583
\$16.070	\$15.441	\$15.272	\$30.691	\$18.256	\$18.884
\$16.372	\$15.731	\$15.562	\$30.981	\$18.546	\$19.186
\$16.674	\$16.021	\$15.852	\$31.271	\$18.836	\$19.488
\$16.976	\$16.311	\$16.142	\$31.561	\$19.126	\$19.790
\$17.277	\$16.600	\$16.431	\$31.850	\$19.415	\$20.091
\$17.579	\$16.890	\$16.721	\$32.140	\$19.705	\$20.393
\$17.881	\$17.180	\$17.011	\$32.430	\$19.995	\$20.695

180.1-185.0	62.4	\$0.000	\$10.845
185.1-190.0	64.1	\$0.000	\$11.135
190.1-195.0	65.8	\$0.000	\$11.425
195.1-200.0	67.5	\$0.000	\$11.714
200.1-205.0	69.2	\$0.000	\$12.004
205.1-210.0	70.9	\$0.000	\$12.294
210.1-215.0	72.6	\$0.000	\$12.584
215.1-220.0	74.3	\$0.000	\$12.874
220.1-225.0	76.0	\$0.000	\$13.163
225.1-230.0	77.7	\$0.000	\$13.453
230.1-235.0	79.4	\$0.000	\$13.743
235.1-240.0	81.1	\$0.000	\$14.033
240.1-245.0	82.9	\$0.000	\$14.340
245.1-250.0	84.6	\$0.000	\$14.630
250.1-255.0	86.3	\$0.000	\$14.919
255.1-260.0	88.0	\$0.000	\$15.209
260.1-265.0	89.7	\$0.000	\$15.499
265.1-270.0	91.4	\$0.000	\$15.789
270.1-275.0	93.1	\$0.000	\$16.079
275.1-280.0	94.8	\$0.000	\$16.369
280.1-285.0	96.5	\$0.000	\$16.658
285.1-290.0	98.2	\$0.000	\$16.948
290.1-295.0	99.9	\$0.000	\$17.238
295.1-300.0	101.6	\$0.000	\$17.528
300.1-305.0	103.4	\$0.000	\$17.835
305.1-310.0	105.1	\$0.000	\$18.124
310.1-315.0	106.8	\$0.000	\$18.414
315.1-320.0	108.5	\$0.000	\$18.704
320.1-325.0	110.2	\$0.000	\$18.994
325.1-330.0	111.9	\$0.000	\$19.284
330.1-335.0	113.6	\$0.000	\$19.574
335.1-340.0	115.3	\$0.000	\$19.863
340.1-345.0	117.0	\$0.000	\$20.153
345.1-350.0	118.7	\$0.000	\$20.443
350.1-355.0	120.4	\$0.000	\$20.733
355.1-360.0	122.1	\$0.000	\$21.023
360.1-365.0	123.9	\$0.000	\$21.329
365.1-370.0	125.6	\$0.000	\$21.619
370.1-375.0	127.3	\$0.000	\$21.909
375.1-380.0	129.0	\$0.000	\$22.199
380.1-385.0	130.7	\$0.000	\$22.489
385.1-390.0	132.4	\$0.000	\$22.779
390.1-395.0	134.1	\$0.000	\$23.068
395.1-400.0	135.8	\$0.000	\$23.358

\$0.000	\$17.487	\$17.318	\$19.969	\$20.302
\$0.000	\$17.777	\$17.608	\$20.259	\$20.592
\$0.000	\$18.067	\$17.898	\$20.549	\$20.882
\$0.000	\$18.356	\$18.187	\$20.838	\$21.171
\$0.000	\$18.646	\$18.477	\$21.128	\$21.461
\$0.000	\$18.936	\$18.767	\$21.418	\$21.751
\$0.000	\$19.226	\$19.057	\$21.708	\$22.041
\$0.000	\$19.516	\$19.347	\$21.998	\$22.331
\$0.000	\$19.805	\$19.636	\$22.287	\$22.620
\$0.000	\$20.095	\$19.926	\$22.577	\$22.910
\$0.000	\$20.385	\$20.216	\$22.867	\$23.200
\$0.000	\$20.675	\$20.506	\$23.157	\$23.490
\$0.000	\$20.982	\$20.813	\$23.464	\$23.797
\$0.000	\$21.272	\$21.103	\$23.754	\$24.087
\$0.000	\$21.561	\$21.392	\$24.043	\$24.376
\$0.000	\$21.851	\$21.682	\$24.333	\$24.666
\$0.000	\$22.141	\$21.972	\$24.623	\$24.956
\$0.000	\$22.431	\$22.262	\$24.913	\$25.246
\$0.000	\$22.721	\$22.552	\$25.203	\$25.536
\$0.000	\$23.011	\$22.842	\$25.493	\$25.826
\$0.000	\$23.300	\$23.131	\$25.782	\$26.115
\$0.000	\$23.590	\$23.421	\$26.072	\$26.405
\$0.000	\$23.880	\$23.711	\$26.362	\$26.695
\$0.000	\$24.170	\$24.001	\$26.652	\$26.985
\$0.000	\$24.477	\$24.308	\$26.959	\$27.292
\$0.000	\$24.766	\$24.597	\$27.248	\$27.581
\$0.000	\$25.056	\$24.887	\$27.538	\$27.871
\$0.000	\$25.346	\$25.177	\$27.828	\$28.161
\$0.000	\$25.636	\$25.467	\$28.118	\$28.451
\$0.000	\$25.926	\$25.757	\$28.408	\$28.741
\$0.000	\$26.216	\$26.047	\$28.698	\$29.031
\$0.000	\$26.505	\$26.336	\$28.987	\$29.320
\$0.000	\$26.795	\$26.626	\$29.277	\$29.610
\$0.000	\$27.085	\$26.916	\$29.567	\$29.900
\$0.000	\$27.375	\$27.206	\$29.857	\$30.190
\$0.000	\$27.665	\$27.496	\$30.147	\$30.480
\$0.000	\$27.971	\$27.802	\$30.453	\$30.786
\$0.000	\$28.261	\$28.092	\$30.743	\$31.076
\$0.000	\$28.551	\$28.382	\$31.033	\$31.366
\$0.000	\$28.841	\$28.672	\$31.323	\$31.656
\$0.000	\$29.131	\$28.962	\$31.613	\$31.946
\$0.000	\$29.421	\$29.252	\$31.903	\$32.236
\$0.000	\$29.710	\$29.541	\$32.192	\$32.525
\$0.000	\$30.000	\$29.831	\$32.482	\$32.815

LED lights are only applicable to LS-1A, 1C, 1E and 1F

\$18.200	\$17.487	\$17.318	\$32.737	\$20.302	\$21.014
\$18.502	\$17.777	\$17.608	\$33.027	\$20.592	\$21.316
\$18.804	\$18.067	\$17.898	\$33.317	\$20.882	\$21.618
\$19.105	\$18.356	\$18.187	\$33.606	\$21.171	\$21.919
\$19.407	\$18.646	\$18.477	\$33.896	\$21.461	\$22.221
\$19.709	\$18.936	\$18.767	\$34.186	\$21.751	\$22.523
\$20.010	\$19.226	\$19.057	\$34.476	\$22.041	\$22.824
\$20.312	\$19.516	\$19.347	\$34.766	\$22.331	\$23.126
\$20.614	\$19.805	\$19.636	\$35.055	\$22.620	\$23.428
\$20.915	\$20.095	\$19.926	\$35.345	\$22.910	\$23.729
\$21.217	\$20.385	\$20.216	\$35.635	\$23.200	\$24.031
\$21.519	\$20.675	\$20.506	\$35.925	\$23.490	\$24.333
\$21.838	\$20.982	\$20.813	\$36.232	\$23.797	\$24.652
\$22.140	\$21.272	\$21.103	\$36.522	\$24.087	\$24.954
\$22.442	\$21.561	\$21.392	\$36.811	\$24.376	\$25.256
\$22.743	\$21.851	\$21.682	\$37.101	\$24.666	\$25.557
\$23.045	\$22.141	\$21.972	\$37.391	\$24.956	\$25.859
\$23.347	\$22.431	\$22.262	\$37.681	\$25.246	\$26.161
\$23.648	\$22.721	\$22.552	\$37.971	\$25.536	\$26.462
\$23.950	\$23.011	\$22.842	\$38.261	\$25.826	\$26.764
\$24.252	\$23.300	\$23.131	\$38.550	\$26.115	\$27.066
\$24.554	\$23.590	\$23.421	\$38.840	\$26.405	\$27.368
\$24.855	\$23.880	\$23.711	\$39.130	\$26.695	\$27.669
\$25.157	\$24.170	\$24.001	\$39.420	\$26.985	\$27.971
\$25.476	\$24.477	\$24.308	\$39.727	\$27.292	\$28.290
\$25.778	\$24.766	\$24.597	\$40.016	\$27.581	\$28.592
\$26.080	\$25.056	\$24.887	\$40.306	\$27.871	\$28.894
\$26.381	\$25.346	\$25.177	\$40.596	\$28.161	\$29.195
\$26.683	\$25.636	\$25.467	\$40.886	\$28.451	\$29.497
\$26.985	\$25.926	\$25.757	\$41.176	\$28.741	\$29.799
\$27.287	\$26.216	\$26.047	\$41.466	\$29.031	\$30.101
\$27.588	\$26.505	\$26.336	\$41.755	\$29.320	\$30.402
\$27.890	\$26.795	\$26.626	\$42.045	\$29.610	\$30.704
\$28.192	\$27.085	\$26.916	\$42.335	\$29.900	\$31.006
\$28.493	\$27.375	\$27.206	\$42.625	\$30.190	\$31.307
\$28.795	\$27.665	\$27.496	\$42.915	\$30.480	\$31.609
\$29.115	\$27.971	\$27.802	\$43.221	\$30.786	\$31.929
\$29.416	\$28.261	\$28.092	\$43.511	\$31.076	\$32.230
\$29.718	\$28.551	\$28.382	\$43.801	\$31.366	\$32.532
\$30.020	\$28.841	\$28.672	\$44.091	\$31.656	\$32.834
\$30.321	\$29.131	\$28.962	\$44.381	\$31.946	\$33.135
\$30.623	\$29.421	\$29.252	\$44.671	\$32.236	\$33.437
\$30.925	\$29.710	\$29.541	\$44.960	\$32.525	\$33.739
\$31.226	\$30.000	\$29.831	\$45.250	\$32.815	\$34.040

Decorative LED lights are only applicable to LS-1D



# PACIFIC GAS AND ELECTRIC COMPANY

## COMPARISON OF GAS TRANSPORTATION RATES

**NOTE: Page reformatted/lines added to include Greenhouse Gas Compliance Cost Component and California Natural Gas Climate Credit for Residentialia**

Rate Schedules	1/1/2019 <sup>(1)</sup>	Average Rate No PPP	4/1/2019 <sup>(2)</sup>	% Chg from Jan 1, 2019	Average Rate No PPP	% Chg from Jan 1, 2019
----------------	-------------------------	------------------------	-------------------------	------------------------------	------------------------	------------------------------

### Comparison of Gas Accord Tariffs - Current rates - effective Jan 1, 2018 (rates did not change July 1, 2018, Jan 1, 2019 or Apr 1, 2019)

<b>Gas Schedule G-AA</b>	<b>7/1/2017 (1)</b>		<b>1/1/2018 (2)</b>	<b>% Chg From 1/1/17</b>		<b>% Chg From 1/1/17</b>
Path	<b>Usage Rate</b>		<b>Usage Rate</b>			
Redwood to On-System (Per Dth)	\$0.5028		\$0.5409	7.58%		
Baja to On-System (Per Dth)	\$0.5508		\$0.5889	6.92%		
Silverado to On-System (Per Dth)	\$0.3133		\$0.3395	8.36%		
Mission to On-System (Per Dth)	\$0.0000		\$0.0000	0.00%		
<b>Gas Schedule G-AAOFF</b>						
Path	<b>Usage Rate</b>		<b>Usage Rate</b>			
Redwood to Off-System (Per Dth)	\$0.5028		\$0.5409	7.58%		
Baja to Off-System (Per Dth)	\$0.5508		\$0.5889	6.92%		
Silverado to Off-System (Per Dth)	\$0.5028		\$0.5409	7.58%		
Mission to Off-System (Per Dth)	\$0.5028		\$0.5409	7.58%		
Mission to Off-System Storage Withdrawals (Per Dth)	\$0.0000		\$0.0000	0.00%		
<b>Gas Schedule G-AFT</b>						
Path	<b>Reservation Rate</b>		<b>Reservation Rate</b>			
	<b>MFV Rates</b>	<b>SFV Rates</b>	<b>MFV Rates</b>		<b>SFV Rates</b>	
Redwood to On-System (Per Dth)	\$9.6105	\$12.7181	\$10.1813	5.94%	\$13.6814	7.57%
Redwood to On-System Core Procurement Groups Only (Per Dth)	\$8.6119	\$10.8639	\$9.1607	6.37%	\$11.8245	8.84%
Baja to On-System (Per Dth)	\$10.5279	\$13.9322	\$11.0848	5.29%	\$14.8954	6.91%
Baja to On-System Core Procurement Groups Only (Per Dth)	\$9.5737	\$12.0773	\$10.1008	5.51%	\$13.0380	7.95%
Silverado to On-System (Per Dth)	\$6.0571	\$7.9195	\$6.4307	6.17%	\$8.5814	8.36%
Mission to On-System (Per Dth)	\$6.0571	\$7.9195	\$6.4307	6.17%	\$8.5814	8.36%
Path	<b>Usage Rate</b>		<b>Usage Rate</b>			
	<b>MFV Rates</b>	<b>SFV Rates</b>	<b>MFV Rates</b>		<b>SFV Rates</b>	
Redwood to On-System (Per Dth)	\$0.1031	\$0.0009	\$0.1160	12.51%	\$0.0010	11.11%
Redwood to On-System Core Procurement Groups Only (Per Dth)	\$0.0750	\$0.0010	\$0.0886	18.13%	\$0.0010	0.00%
Baja to On-System (Per Dth)	\$0.1129	\$0.0010	\$0.1263	11.87%	\$0.0010	0.00%
Baja to On-System Core Procurement Groups Only (Per Dth)	\$0.0834	\$0.0011	\$0.0977	17.15%	\$0.0011	0.00%
Silverado to On-System (Per Dth)	\$0.0620	\$0.0007	\$0.0715	15.32%	\$0.0008	14.29%
Mission to On-System (Per Dth)	\$0.0620	\$0.0007	\$0.0715	15.32%	\$0.0008	14.29%
Mission to On-System Storage Withdrawals (Conversion option from Firm ON-System Rewood or Baja Path only)	\$0.0000	\$0.0000	\$0.0000	0.00%	\$0.0000	0.00%
<b>Gas Schedule G-AFTOFF</b>						
Path	<b>Reservation Rate</b>		<b>Reservation Rate</b>			
	<b>MFV Rates</b>	<b>SFV Rates</b>	<b>MFV Rates</b>		<b>SFV Rates</b>	
Redwood to Off-System (Per Dth)	\$9.6105	\$12.7181	\$10.1813	5.94%	\$13.6814	7.57%
Baja to Off-System (Per Dth)	\$10.5279	\$13.9322	\$11.0848	5.29%	\$14.8954	6.91%
Silverado to Off-System (Per Dth)	\$9.6105	\$12.7181	\$10.1813	5.94%	\$13.6814	7.57%
Mission to Off-System (Per Dth)	\$9.6105	\$12.7181	\$10.1813	5.94%	\$13.6814	7.57%
Path	<b>Usage Rate</b>		<b>Usage Rate</b>			
	<b>MFV Rates</b>	<b>SFV Rates</b>	<b>MFV Rates</b>		<b>SFV Rates</b>	
Redwood to Off-System (Per Dth)	\$0.1031	\$0.0009	\$0.1160	12.51%	\$0.0010	11.11%
Baja to Off-System (Per Dth)	\$0.1129	\$0.0010	\$0.1263	11.87%	\$0.0010	0.00%
Silverado to Off-System (Per Dth)	\$0.1031	\$0.0009	\$0.1160	12.51%	\$0.0010	11.11%
Mission to Off-System (Per Dth)	\$0.1031	\$0.0009	\$0.1160	12.51%	\$0.0010	11.11%
<b>Gas Schedule G-BAL</b>						
Self-Balancing Credit Paragraph Section	\$0.0195		\$0.0200	2.56%		
<b>Gas Schedule G-CFS</b>						
Reservation Charge per Dth per month	\$0.1860		\$0.1913	2.85%		
<b>Gas Schedule G-IEND</b>						
Minimum Rate (per transaction)	\$57.00		\$57.00	0.00%		
Maximum Rate (per Dth per day)	\$1.1942		\$1.1650	-2.45%		
<b>Gas Schedule G-NAS</b>						
Injection Maximum Rates (Per Dth/Day)	\$5.8437		\$5.7236	-2.06%		
Withdrawl Maximum Rates (Per Dth/Day)	\$26.7122		\$26.1629	-2.06%		
<b>Gas Schedule G-NFS</b>						
Injection Maximum Rates (Per Dth/Day)	\$5.8437		\$5.7236	-2.06%		
Inventory (Per Dth)	\$3.6287		\$3.5541	-2.06%		
Withdrawl Maximum Rates (Per Dth/Day)	\$26.7122		\$26.1629	-2.06%		
<b>Gas Schedule G-PARK</b>						
Minimum Rate (per transaction)	\$57.00		\$57.00	0.00%		
Maximum Rate (per Dth per day)	\$1.1942		\$1.1650	-2.45%		
<b>Gas Schedule G-SFS</b>						
Reservation Charge per Dth per month	\$0.3024		\$0.2962	-2.05%		
<b>Gas Schedule G-SFT</b>						
Path	<b>Reservation Rate</b>		<b>Reservation Rate</b>			
	<b>MFV Rates</b>	<b>SFV Rates</b>	<b>MFV Rates</b>		<b>SFV Rates</b>	
Redwood to On-System (Per Dth)	\$11.53260	\$15.26180	\$12.2175	5.94%	\$16.4176	7.57%
Baja to On-System (Per Dth)	\$12.63350	\$16.71860	\$13.3017	5.29%	\$17.8745	6.91%
Baja to On-System Core Procurement Groups Only (Per Dth)	\$11.48850	\$14.49280	\$12.1209	5.50%	\$15.6456	7.95%
Silverado to On-System (Per Dth)	\$7.26850	\$9.50340	\$7.7168	6.17%	\$10.2977	8.36%
Mission to On-System (Per Dth)	\$7.26850	\$9.50340	\$7.7168	6.17%	\$10.2977	8.36%
Path	<b>Usage Rate</b>		<b>Usage Rate</b>			
	<b>MFV Rates</b>	<b>SFV Rates</b>	<b>MFV Rates</b>		<b>SFV Rates</b>	
Redwood to On-System (Per Dth)	\$0.1237	\$0.0011	\$0.1392	12.53%	\$0.0012	9.09%
Baja to On-System (Per Dth)	\$0.1355	\$0.0012	\$0.1516	11.88%	\$0.0013	8.33%
Baja to On-System Core Procurement Groups Only (Per Dth)	\$0.1001	\$0.0013	\$0.1172	17.08%	\$0.0013	0.00%
Silverado to On-System (Per Dth)	\$0.0744	\$0.0009	\$0.0858	15.32%	\$0.0009	0.00%
Mission to On-System (Per Dth)	\$0.0744	\$0.0009	\$0.0858	15.32%	\$0.0009	0.00%
<b>Gas Schedule G-XF</b>						
SFV Reservation Rates (Per Dth Per Month)	5.7271		5.7955	1.19%		
SFV Usage Rates (Per Dth)	0.0001		0.0001	0.00%		

Notes:

1) Rates are based on 7/1/2017 -Implementation of the 2017 GRC Decision 17-05-013 and Revising the Self Generation Incentive Program Pursuant to Assembly Bill 1637 D. 17-04-017.

2) Rates are based on 1/1/2018 - Annual Gas True-Up implemented with AL 3919-G for noncore tariffs; AL 3918-G for core tariffs; and AL 3901-G for Public Purpose Program Surcharge.



# PACIFIC GAS AND ELECTRIC COMPANY

## COMPARISON OF GAS TRANSPORTATION RATES

**NOTE: Page reformatted/lines added to include Greenhouse Gas Compliance Cost Component and California Natural Gas Climate Credit for Residential**

Rate Schedules	1/1/2019 <sup>(1)</sup>	Average Rate No PPP	4/1/2019 <sup>(2)</sup>	% Chg from Jan 1, 2019	Average Rate No PPP	% Chg from Jan 1, 2019
<b>Comparison of Core Schedules:</b>						
<b>Residential (G-1, GM, GS, GT)</b>						
Transportation Charge (\$/Therm)						
Tier 1	\$0.99414	\$1.22019	\$0.99933	0.52%	\$1.22656	0.5% Avg. Summer (Apr-Oct)
Tier 2	\$1.59063	\$1.18976	\$1.59892	0.52%	\$1.19599	0.5% Avg. Winter (Jan-Mar, Nov-Dec)
Average Rate from RTP		\$1.20510			\$1.20936	0.5% Avg. Annual
California Natural Gas Climate Credit <sup>(3)</sup>	(\$25.45)		(\$25.45)			
Greenhouse Gas Compliance Cost <sup>(4)</sup>	\$0.04781		\$0.04781			
<b>Residential Natural Gas Vehicle (G1-NGV)</b>						
Customer Charge	\$0.41425		\$0.41425	0.00%		
Transportation Charge (\$/therm) implemented 2/1/06	\$0.71613		\$0.72233	0.87%		
California Natural Gas Climate Credit <sup>(3)</sup>	(\$25.45)		(\$25.45)			
Greenhouse Gas Compliance Cost <sup>(4)</sup>	\$0.04781		\$0.04781			
<b>Small Commercial (G-NR1)</b>						
Customer Charge 0 - 5.0 therms (\$/day)	\$0.27048		\$0.27048	0.00%		
Customer Charge 5.1 - 16.0 therms (\$/day)	\$0.52106		\$0.52106	0.00%		
Customer Charge 16.1 - 41.0 therms (\$/day)	\$0.95482		\$0.95482	0.00%		
Customer Charge 41.1 - 123.0 therms (\$/day)	\$1.66489		\$1.66489	0.00%		
Customer Charge >123.1 therms (\$/day)	\$2.14936		\$2.14936	0.00%		
Transportation Charge (\$/Therm)						
Summer (1st 4,000)	\$0.69949	\$0.73712	\$0.70585	0.91%	\$0.74346	0.9% Avg. Summer
Summer (Excess)	\$0.41959		\$0.42573	1.46%		
Winter (1st 4,000)	\$0.81874	\$0.80903	\$0.82488	0.75%	\$0.81523	0.8% Avg. Winter
Winter (Excess)	\$0.49112		\$0.49753	1.30%		
Greenhouse Gas Compliance Cost <sup>(4)</sup>	\$0.04781	\$0.77770	\$0.04781		\$0.78395	0.8% Avg. Annual
<b>Large Commercial (G-NR2)</b>						
Customer Charge (\$/Day)	\$4.95518		\$4.95518	0.00%		
Transportation Charge (\$/Therm)						
Summer (1st 4,000)	\$0.69949	\$0.45380	\$0.70585	0.91%	\$0.45997	1.4% Avg. Summer
Summer (Excess)	\$0.41959		\$0.42573	1.46%		
Winter (1st 4,000)	\$0.81874	\$0.52610	\$0.82488	0.75%	\$0.53240	1.2% Avg. Winter
Winter (Excess)	\$0.49112		\$0.49753	1.30%		
Greenhouse Gas Compliance Cost <sup>(4)</sup>	\$0.04781	\$0.48590	\$0.04781		\$0.49016	1.3% Avg. Annual
<b>Residential Transport-Only (G-CT)</b>						
Transportation Charge (\$/Therm)						
Tier 1	\$0.99414		\$0.99933	0.52%		
Tier 2	\$1.59063		\$1.59892	0.52%		
California Natural Gas Climate Credit <sup>(3)</sup>	(\$25.45)		(\$25.45)			
Greenhouse Gas Compliance Cost <sup>(4)</sup>	\$0.04781		\$0.04781			
<b>Small Commercial Transport-Only (G-CT)</b>						
Transportation Charge (\$/Therm)						
Summer (1st 4,000)	\$0.69949		\$0.70585	0.91%		
Summer (Excess)	\$0.41959		\$0.42573	1.46%		
Winter (1st 4,000)	\$0.81874		\$0.82488	0.75%		
Winter (Excess)	\$0.49112		\$0.49753	1.30%		
Greenhouse Gas Compliance Cost <sup>(4)</sup>	\$0.04781		\$0.04781			
<b>Large Commercial Transport-Only (G-CT)</b>						
Transportation Charge (\$/Therm)						
Summer (1st 4,000)	\$0.69949		\$0.70585	0.91%		
Summer (Excess)	\$0.41959		\$0.42573	1.46%		
Winter (1st 4,000)	\$0.81874		\$0.82488	0.75%		
Winter (Excess)	\$0.49112		\$0.49753	1.30%		
Greenhouse Gas Compliance Cost <sup>(4)</sup>	\$0.04781		\$0.04781			
<b>Natural Gas Vehicle - Uncompressed (G-NGV1)</b>						
Customer Charge (\$/Day)	\$0.44121		\$0.44121	0.00%		
Transportation Charge (\$/Therm)	\$0.39675	\$0.39794	\$0.40300	1.58%	\$0.40419	1.6%
Greenhouse Gas Compliance Cost <sup>(4)</sup>	\$0.04781		\$0.04781			
<b>Natural Gas Vehicle - Compressed (G-NGV2)</b>						
Customer Charge (\$/Day)	\$0.00		\$0.00	0.00%		
Transportation Charge (\$/Therm)	\$1.87355	\$1.87355	\$1.88024	0.36%	\$1.88023	0.4%
Greenhouse Gas Compliance Cost <sup>(4)</sup>	\$0.04781		\$0.04781			
<b>G-PPP CORE CUSTOMERS</b>						
Residential Non-Care	\$0.09047		\$0.09047	0.00%		
Residential CARE	\$0.06478		\$0.06478	0.00%		
Small Commercial	\$0.04319		\$0.04319	0.00%		
Large Commercial	\$0.09542		\$0.09542	0.00%		
Natural Gas Vehicle	\$0.02811		\$0.02811	0.00%		

**Notes:**

- 1) Rates are based on 4/1/2019 - Includes CPUC User Fee increase and Line 407 with AL 4080-G for noncore tariffs and AL 4079-G for core tariffs.
- 2) Rates are based on 1/1/2019 - Annual Gas True-Up implemented with AL 4053-G for noncore tariffs; AL 4052-G for core tariffs; and AL 4037-G for Public Purpose Program Surcharge.
- 3) Residential Annual Credit in October 2018 bill cycle, thereafter, in April bill cycle.
- 4) Covered Entities (i.e., customers that currently have a direct obligation to pay for allowances directly to the Air Resources Board for their Greenhouse Gas (GHG) emissions) will see a line item credit on their bill equal to \$0.04781 per therm times their monthly billed volumes.

# PACIFIC GAS AND ELECTRIC COMPANY

## COMPARISON OF GAS TRANSPORTATION RATES

**NOTE: Page reformatted/lines added to include Greenhouse Gas Compliance Cost Component and California Natural Gas Climate Credit for Residential**

Rate Schedules	1/1/2019 <sup>(2)</sup>	Average Rate No PPP	4/1/2019 <sup>(2)</sup>	% Chg from Jan 1, 2019	Average Rate No PPP	% Chg from Jan 1, 2019
<b>Comparison of Noncore Schedules</b>						
<b>Industrial (G-NT)</b>						
<u>Customer Access Charge (\$/Day)</u>						
0 to 5,000 therms	\$1.10893		\$1.10893	0.0%		
5,001 to 10,000 therms	\$3.30279		\$3.30279	0.0%		
10,001 to 50,000 therms	\$6.14729		\$6.14729	0.0%		
50,001 to 200,000 therms	\$8.06762		\$8.06762	0.0%		
200,001 to 1,000,000 therms	\$11.70542		\$11.70542	0.0%		
1,000,001 therms and above	\$99.29227		\$99.29227	0.0%		
<u>Transportation Charge (\$/Therm)</u>						
Backbone	0.06824	\$0.06809	0.06906	1.20%	\$0.06981	1.2%
Transmission	\$0.17749	\$0.17841	\$0.18068	1.80%	\$0.18160	1.8%
Distribution (Summer) Tier 1	\$0.39325	\$0.39221	\$0.39644	0.81%	\$0.33540	1.0%
Distribution (Summer) Tier 2	\$0.30932		\$0.31251	1.03%		
Distribution (Summer) Tier 3	\$0.29217		\$0.29536	1.09%		
Distribution (Summer) Tier 4	\$0.27876		\$0.28195	1.14%		
Distribution (Summer) Tier 5	\$0.17749		\$0.18068	1.80%		
Distribution (Winter) Tier 1	\$0.47430		\$0.47749	0.67%		
Distribution (Winter) Tier 2	\$0.36098		\$0.36417	0.88%		
Distribution (Winter) Tier 3	\$0.33783		\$0.34102	0.94%		
Distribution (Winter) Tier 4	\$0.31973		\$0.32292	1.00%		
Distribution (Winter) Tier 5	\$0.17749		\$0.18068	1.80%		
Greenhouse Gas Compliance Cost <sup>3)</sup>	0.04781		\$0.04781			
<b>G-PPP Noncore Customers</b>						
Backbone/Transmission	\$0.03439		\$0.03439	0.00%		
Distribution	\$0.04351		\$0.04351	0.00%		
<b>Electric Generation G-EG</b>						
<u>Transportation Charge:</u>						
Backbone Transportation Charge (\$/therm)	0.06795	\$0.06814	0.06798	0.04%	\$0.06817	0.0%
Distribution/Transmission Charge (\$/Therm)	\$0.16731	\$0.16794	\$0.16971	1.44%	\$0.17034	1.4%
Greenhouse Gas Compliance Cost <sup>3)</sup>	0.04781		\$0.04781			
<b>Wholesale G-WSL</b>						
<u>Customer Access Charge (\$/Day)</u>						
Palo Alto	\$78.30247		\$78.30247	0.00%		
Coalinga	\$23.48416		\$23.48416	0.00%		
West Coast Gas-Mather	\$12.46685		\$12.46685	0.00%		
West Coast Gas - Castle	\$13.64186		\$13.64186	0.00%		
Island Energy	\$15.91167		\$15.91167	0.00%		
Alpine Natural Gas	\$5.30992		\$5.30992	0.00%		
<u>Transportation Charge (\$/Therm)</u>						
Palo Alto	\$0.16127	\$0.11439	\$0.16364	1.47%	\$0.11676	2.1%
Coalinga	\$0.16127	\$0.11696	\$0.16364	1.47%	\$0.11933	2.0%
West Coast Gas - Mather (Transmission)	\$0.16127	\$0.11800	\$0.16364	1.47%	\$0.12037	2.0%
West Coast Gas - Mather (Distribution)	\$0.42552	\$0.38225	\$0.42789	0.56%	\$0.38462	0.6%
West Coast Gas - Castle (Distribution)	\$0.36083	\$0.32089	\$0.36320	0.66%	\$0.32326	0.7%
Island Energy	\$0.16127	\$0.12811	\$0.16364	1.47%	\$0.13048	1.8%
Alpine Natural Gas	\$0.16127	\$0.11663	\$0.16364	1.47%	\$0.11900	2.0%
Greenhouse Gas Compliance Cost <sup>3)</sup>	0.04781		\$0.04781			
<b>Natural Gas Vehicle - Uncompressed (G-NGV4)</b>						
<u>Customer Access Charge (\$/Day)</u>						
0 to 5,000 therms	\$1.10893		\$1.10893	0.0%		
5,001 to 10,000 therms	\$3.30279		\$3.30279	0.0%		
10,001 to 50,000 therms	\$6.14729		\$6.14729	0.0%		
50,001 to 200,000 therms	\$8.06762		\$8.06762	0.0%		
200,001 to 1,000,000 therms	\$11.70542		\$11.70542	0.0%		
1,000,001 therms and above	\$99.29227		\$99.29227	0.0%		
<u>Transportation Charge (\$/Therm)</u>						
Transmission	\$0.16760	\$0.16852	\$0.17079	1.90%	\$0.17171	1.9%
Distribution (Summer) Tier 1	\$0.39325	\$0.33221	\$0.39644	0.81%	\$0.33540	1.0%
Distribution (Summer) Tier 2	\$0.30932		\$0.31251	1.03%		
Distribution (Summer) Tier 3	\$0.29217		\$0.29536	1.09%		
Distribution (Summer) Tier 4	\$0.27876		\$0.28195	1.14%		
Distribution (Summer) Tier 5	\$0.16760		\$0.17079	1.90%		
Distribution (Winter) Tier 1	\$0.47430		\$0.47749	0.67%		
Distribution (Winter) Tier 2	\$0.36098		\$0.36417	0.88%		
Distribution (Winter) Tier 3	\$0.33783		\$0.34102	0.94%		
Distribution (Winter) Tier 4	\$0.31973		\$0.32292	1.00%		
Distribution (Winter) Tier 5	\$0.16760		\$0.17079	1.90%		
Greenhouse Gas Compliance Cost <sup>3)</sup>	0.04781		\$0.04781			
<b>Liquefied Natural Gas (G-LNG)</b>						
	\$0.30496		\$0.30815	1.05%		
<b>G-PPP Natural Gas Vehicle/Liquid Natural Gas</b>						
	\$0.02811		\$0.02811	0.00%		

Notes:

1) Rates are based on 4/1/2019 - Includes CPUC User Fee increase and Line 407 with AL 4080-G for noncore tariffs and AL 4079-G for core tariffs.

2) Rates are based on 1/1/2019 - Annual Gas True-Up implemented with AL 4053-G for noncore tariffs; AL 4052-G for core tariffs; and AL 4037-G for Public Purpose Program Surcharge.

# **EXHIBIT B**

**EXECUTIVE SUMMARY**  
**PACIFIC GAS AND ELECTRIC COMPANY**  
**PROPOSED 2020 COST OF CAPITAL BASED ON \$387.4 MILLION RRQ ALLOCATED TO GAS**

Class Average Illustrative Revenues Allocated By Customer  
Class (\$000)

Line No.	Customer Class (4)	April 1, 2019	Proposed 2020 Cost of Capital	\$ Change	% Change
1	<b>BUNDLED—RETAIL CORE (1)</b>				
2	Residential Non-CARE	\$2,320,393	\$2,512,561	\$192,168	8.3%
3	Residential CARE (2)	\$609,840	\$660,345	\$50,505	8.3%
4	Small Commercial	\$667,318	\$714,976	\$47,658	7.1%
5	Large Commercial	\$43,191	\$45,851	\$2,660	6.2%
6	Core NGV (5)	\$20,112	\$21,188	\$1,076	5.4%
7	<b>TRANSPORT ONLY—RETAIL CORE</b>				
8	Residential Non-CARE	\$29,346	\$32,504	\$3,159	10.8%
9	Residential CARE (2)	\$7,713	\$8,543	\$830	10.8%
10	Small Commercial Non-CARE	\$173,067	\$190,232	\$17,165	9.9%
11	Large Commercial	\$14,453	\$15,778	\$1,325	9.2%
12	Core NGV (5)	\$0	\$0	\$0	0.0%
13	<b>TRANSPORT ONLY—RETAIL NONCORE</b>				
14	Industrial – Distribution	\$97,023	\$106,641	\$9,617	9.9%
15	Industrial – Transmission	\$279,401	\$309,185	\$29,784	10.7%
16	Industrial – Backbone	\$788	\$912	\$124	15.7%
17	Uncompressed Noncore NGV	\$926	\$994	\$68	7.3%
18	Electric Generation	\$178,335	\$208,923	\$30,588	17.2%
19	<b>TRANSPORT ONLY—WHOLESALE</b>				
20	Alpine Natural Gas	\$74	\$85	\$11	14.8%
21	Coalinga	\$297	\$341	\$44	14.7%
22	Island Energy	\$55	\$62	\$7	13.0%
23	Palo Alto	\$3,678	\$4,230	\$552	15.0%
24	West Coast Gas – Castle	\$214	\$242	\$28	12.9%
25	West Coast Gas – Mather	\$290	\$328	\$38	13.2%
26	<b>Unbundled Gas Transmission &amp; Storage (3)</b>	\$230,866	\$230,866	\$0	0.0%
		4,677,381	5,064,787	\$387,407	8.3%

- (1) Due to procurement rates changing monthly, present and propose revenue requirements include an illustrative procurement revenue requirement as filed in the advice letter 4080-G.
- (2) CARE Customers receive a 20% discount off of PG&E's total bundled rate and are exempt from the CARE portion of PG&E's Public Purpose Program Surcharge (G-PPPS) rates and cost recovery of the California Solar Initiative Thermal Program.
- (3) The portion of PG&E's gas backbone storage revenue requirement not allocated to PG&E's bundled core customer classes are provided to the marketplace and not specifically to any customer class.
- (4) The allocation and resulting gas rate impacts are illustrative based on functionalized 2018 Gas Transmission and Storage (GT&S) revenue requirements, implemented via the GT&S late implementation rate components. Therefore, the portion of the requested revenue requirement change associated with PG&E's local transmission service is not allocated to industrial or electric generation customers served under PG&E's respective backbone level service end-user tariffs.

**EXECUTIVE SUMMARY**  
**PACIFIC GAS AND ELECTRIC COMPANY**  
**PROPOSED 2020 COST OF CAPITAL BASED ON \$387.4 MILLION RRQ ALLOCATED TO GAS**

Class Average Rates (\$/th)

Line No.	Customer Class (3) (5)	April 1, 2019	Proposed 2020 Cost of Capital	\$ Change	% Change
1	<b>BUNDLED—RETAIL CORE (1)</b>				
2	Residential Non-CARE	\$1.615	\$1.740	\$0.125	7.7%
3	Residential CARE (2)	\$1.283	\$1.383	\$0.100	7.8%
4	Small Commercial Non-CARE	\$1.126	\$1.208	\$0.083	7.3%
5	Large Commercial	\$0.855	\$0.908	\$0.053	6.2%
6	Uncompressed Core NGV	\$0.700	\$0.744	\$0.044	6.3%
7	Compressed Core NGV	\$2.176	\$2.199	\$0.023	1.1%
8	<b>TRANSPORT ONLY—RETAIL CORE</b>				
9	Residential Non-CARE	\$1.300	\$1.425	\$0.125	9.6%
10	Residential CARE(2)	\$1.04	\$1.14	\$0.100	9.6%
11	Small Commercial Non-CARE	\$0.827	\$0.910	\$0.083	10.0%
12	Large Commercial	\$0.586	\$0.638	\$0.053	9.0%
13	Uncompressed Core NGV	\$0.432	\$0.476	\$0.044	10.2%
14	Compressed Core NGV	\$1.908	\$1.932	\$0.023	1.2%
15	<b>TRANSPORT ONLY—RETAIL NONCORE - NONCOVERED ENTITIES (3)</b>				
16	Industrial – Distribution	\$0.379	\$0.417	\$0.038	10.0%
17	Industrial – Transmission	\$0.216	\$0.235	\$0.019	8.8%
18	Industrial – Backbone	\$0.104	\$0.111	\$0.007	6.6%
19	Uncompressed Noncore NGV – Distribution	\$0.364	\$0.401	\$0.038	10.4%
20	Uncompressed Noncore NGV – Transmission	\$0.200	\$0.218	\$0.018	9.0%
21	Electric Generation – Distribution/Transmission	\$0.170	\$0.189	\$0.018	10.7%
22	Electric Generation – Backbone	\$0.068	\$0.075	\$0.007	10.6%
23	<b>TRANSPORT ONLY—RETAIL NONCORE - COVERED ENTITIES (4)</b>				
24	Industrial – Distribution	\$0.331	\$0.369	\$0.038	11.4%
25	Industrial – Transmission	\$0.168	\$0.187	\$0.019	11.4%
26	Industrial – Backbone	\$0.056	\$0.063	\$0.007	12.1%
27	Uncompressed Noncore NGV – Distribution	\$0.316	\$0.354	\$0.038	12.0%
28	Uncompressed Noncore NGV – Transmission	\$0.152	\$0.170	\$0.018	11.8%
29	Electric Generation – Distribution/Transmission	\$0.123	\$0.141	\$0.018	14.9%
30	Electric Generation – Backbone	\$0.020	\$0.028	\$0.007	35.5%
31	<b>TRANSPORT ONLY—WHOLESALE(4)</b>				
32	Alpine Natural Gas (T)	\$0.119	\$0.137	\$0.018	15.0%
33	Coalinga (T)	\$0.119	\$0.137	\$0.018	15.0%
34	Island Energy (T)	\$0.130	\$0.148	\$0.018	13.7%
35	Palo Alto (T)	\$0.117	\$0.135	\$0.018	15.3%
36	West Coast Gas – Castle (D)	\$0.323	\$0.365	\$0.042	13.0%
37	West Coast Gas – Mather (D)	\$0.385	\$0.435	\$0.050	13.0%
38	West Coast Gas – Mather (T)	\$0.120	\$0.138	\$0.018	14.9%

Monthly Bill Impacts Based on Average Therms per Month per Customer

Residential Bundled Non-Care (34 therms)	\$54.91	\$59.16	\$4.25	7.7%
Small Commercial Bundled Non-Care (284 therm	\$319.73	\$343.17	\$23.44	7.3%

- (1) Due to procurement rates changing monthly, present and propose bundled rates include an illustrative procurement rate component.
- (2) CARE Customers receive a 20% discount off of PG&E's total bundled rate and are exempt from the CARE portion of PG&E's Public Purpose Program Surcharge (G-PPPS) rates and cost recovery of the California Solar Initiative Thermal Program.
- (3) Transportation rates paid by all customers include an additional GHG Compliance Cost Recovery component of \$0.05049 per therm.
- (4) Covered Entities (i.e. customers that currently have a direct obligation to pay for allowances directly to the Air Resources Board) will pay a GHG Obligation Cost component of \$0.00268 per therm to cover PG&E allowance costs associated with lost & unaccounted for (LUAF) gas and compression costs. Covered entities will see a line item credit on their bill equal to \$0.04781 (\$0.05049 minus \$0.00268) per therm times their monthly billed volumes.
- (5) The allocation and resulting gas rate impacts are illustrative based on functionalized 2018 Gas Transmission and Storage (GT&S) revenue requirements, implemented via the GT&S late implementation rate components. Therefore, the portion of the requested revenue requirement change associated with PG&E's local transmission service is not allocated to industrial or electric generation customers served under PG&E's respective backbone level service end-user tariffs.

# EXHIBIT C

PACIFIC GAS AND ELECTRIC COMPANY  
ELECTRIC DEPARTMENT  
SUMMARY OF REVENUES BY CUSTOMER CLASS  
(THOUSANDS OF NOMINAL DOLLARS)

Customer Class Bundled	Total Revenue at 3/1/19 Rates (\$000s)	Proposed Illustrative Class Revenue (\$000s)	Revenue Change (\$000s)	Percentage Change
Residential	\$3,771,940	\$4,038,994	\$267,054	7.1%
Small L&P	\$1,198,116	\$1,280,613	\$82,497	6.9%
Medium L&P	\$1,065,342	\$1,129,387	\$64,045	6.0%
E-19 Total	\$1,245,022	\$1,313,053	\$68,031	5.5%
Streetlights	\$41,919	\$43,687	\$1,768	4.2%
Standby	\$52,636	\$55,225	\$2,589	4.9%
Agriculture	\$1,100,756	\$1,173,255	\$72,499	6.6%
E-20 Total	\$1,115,907	\$1,166,840	\$50,933	4.6%
Total Bundled	\$9,591,636.947	\$10,201,054	\$609,417	6.4%

Customer Class DA/CCA	Total Revenue at 3/1/19 Rates (\$000s)	Proposed Illustrative Class Revenue (\$000s)	Revenue Change (\$000s)	Percentage Change
Residential	\$1,433,104	\$1,535,919	\$102,815	7.2%
Small L&P	\$484,328	\$518,612	\$34,283	7.1%
Medium L&P	\$624,721	\$660,342	\$35,621	5.7%
E-19 Total	\$564,082	\$595,017	\$30,935	5.5%
Streetlights	\$15,873	\$16,477	\$604	3.8%
Standby	\$164	\$177	\$13	7.9%
Agriculture	\$112,139	\$119,240	\$7,101	6.3%
E-20 Total	\$544,304	\$567,250	\$22,945	4.2%
Total DA/CCA	\$3,778,716	\$4,013,034	\$234,319	6.2%

Filing Name

2020 Cost of Capital

4/17/2019

ELECTRIC RATES	Average Rate (cents/kWh) <sup>(1)</sup>							
	Bundled				Direct/Community Choice Access			
	3/1/2019 Present (A)	1/1/2020 Proposed (B)	Rate Change (B) - (A)	% Change	3/1/2019 Present (C)	1/1/2020 Proposed (D)	Rate Change (D) - (C)	% Change
Customer Class								
Residential	20.55	22.01	1.46	7.1%	15.39	16.49	1.10	7.2%
Small Commercial	24.41	26.09	1.68	6.9%	15.94	17.07	1.13	7.1%
Medium Commercial	21.53	22.82	1.29	6.0%	12.26	12.96	0.70	5.7%
Large Commercial (E-19)	18.89	19.92	1.03	5.5%	9.21	9.71	0.50	5.5%
Streetlight	23.77	24.77	1.00	4.2%	15.98	16.59	0.61	3.8%
Standby	16.46	17.27	0.81	4.9%	24.46	26.39	1.93	7.9%
Agriculture	20.82	22.19	1.37	6.6%	12.43	13.22	0.79	6.3%
Industrial (E-20)	15.07	15.76	0.69	4.6%	6.35	6.62	0.27	4.2%
Average System Rate	19.99	21.26	1.27	6.4%	11.40	12.11	0.71	6.2%
RESIDENTIAL TIERS	Non-CARE (cents/kWh)			%	CARE (cents/kWh)			%
	3/1/2019	01/01/20	Change		3/1/2019	1/1/2020	Change	
	Tier 1	21.78	23.21	6.6%	13.95	14.86	6.6%	
	Tier 2	27.40	29.20	6.6%	17.53	18.68	6.6%	
	Tier 3	27.40	29.20	6.6%	17.53	18.68	6.6%	
	Tier 4	27.40	29.20	6.6%	17.53	18.68	6.6%	
	Tier 5	48.01	51.16	6.6%	30.71	32.73	6.6%	
ELECTRIC BILLS	Average Monthly Non-CARE Bill (\$)				Average Monthly CARE Bill (\$)			
	Bundled				Bundled			
	3/1/2019	1/1/2020	Bill Change	% Change	3/1/2019	1/1/2020	Bill Change	% Change
	Customer							
	Residential							
	350 kWh	\$71.70	\$76.85	\$5.14 7.2%	\$43.55	\$46.85	\$3.29 7.6%	
	500 kWh	\$112.81	\$120.65	\$7.85 7.0%	\$69.85	\$74.87	\$5.02 7.2%	
	700 kWh	\$167.61	\$179.06	\$11.45 6.8%	\$104.90	\$112.23	\$7.33 7.0%	
Small Commercial	\$313.35	\$334.93	\$21.58 6.9%	N/A	N/A	N/A	N/A	

System average revenue for Departed Load customers will increase by \$0.9 million or 2.6%

Notes:

(1) Rates are rounded to two decimal places for presentation purposes. % Change based on rates carrying additional digits.



# **EXHIBIT D**

**PACIFIC GAS AND ELECTRIC COMPANY**  
**REVENUE, EXPENSE, RATE BASE AND RATE OF RETURN**  
**YEAR 2018 SUMMARY OF EARNINGS**  
**RECORDED ADJUSTED FOR RATEMAKING**  
**\$000**

<b>Line No.</b>		<b>Electric Operations</b>	<b>Gas Operations</b>	<b>Total Utility Operations</b>
1	<b>Operating Revenue</b>	13,059,370	4,219,074	17,278,444
2	<b>Expenses</b>			
3	Operation & Maintenance Expense	19,990,445	2,799,119	22,789,564
4	Depreciation	2,348,946	685,764	3,034,710
5	Taxes	(2,714,051)	177,101	(2,536,950)
6	Other	(580)	0	(580)
7	<b>Total Expenses (Line 3 to Line 6)</b>	19,624,760	3,661,984	23,286,744
8	<b>Operating Income (Line 1 less Line 7)</b>	<b>(6,565,390)</b>	<b>557,090</b>	<b>(6,008,300)</b>
9	Weighted Average Rate Base	27,524,529	9,725,140	37,249,669
10	<b>Return on Rate Base (Line 8/Line 9)</b>	<b>-23.85%</b>	<b>5.73%</b>	<b>-16.13%</b>

# EXHIBIT E

## SERVICE OF NOTICE OF APPLICATION

In accordance with Rule 3.2(b), Applicant will mail a notice to the following, stating in general terms its proposed change in rates.

### State of California

To the Attorney General and the Department of General Services.

State of California  
Office of Attorney General  
1300 I St Ste 1101  
Sacramento, CA 95814

and

Department of General Services  
Office of Buildings & Grounds  
505 Van Ness Avenue, Room 2012  
San Francisco, CA 94102

### Counties

To the County Counsel or District Attorney and the County Clerk in the following counties:

Alameda	Mariposa	Santa Clara
Alpine	Mendocino	Santa Cruz
Amador	Merced	Shasta
Butte	Modoc	Sierra
Calaveras	Monterey	Siskiyou
Colusa	Napa	Solano
Contra Costa	Nevada	Sonoma
El Dorado	Placer	Stanislaus
Fresno	Plumas	Sutter
Glenn	Sacramento	Tehama
Humboldt	San Benito	Trinity
Kern	San Bernardino	Tulare
Kings	San Francisco	Tuolumne
Lake	San Joaquin	Yolo
Lassen	San Luis Obispo	Yuba
Madera	San Mateo	
Marin	Santa Barbara	

## Municipal Corporations

To the City Attorney and the City Clerk of the following municipal corporations:

Alameda	Colusa	Hanford
Albany	Concord	Hayward
Amador City	Corcoran	Healdsburg
American Canyon	Corning	Hercules
Anderson	Corte Madera	Hillsborough
Angels Camp	Cotati	Hollister
Antioch	Cupertino	Hughson
Arcata	Daly City	Huron
Arroyo Grande	Danville	Ione
Arvin	Davis	Isleton
Atascadero	Del Rey Oaks	Jackson
Atherton	Dinuba	Kerman
Atwater	Dixon	King City
Auburn	Dos Palos	Kingsburg
Avenal	Dublin	Lafayette
Bakersfield	East Palo Alto	Lakeport
Barstow	El Cerrito	Larkspur
Belmont	Elk Grove	Lathrop
Belvedere	Emeryville	Lemoore
Benicia	Escalon	Lincoln
Berkeley	Eureka	Live Oak
Biggs	Fairfax	Livermore
Blue Lake	Fairfield	Livingston
Brentwood	Ferndale	Lodi
Brisbane	Firebaugh	Lompoc
Buellton	Folsom	Loomis
Burlingame	Fort Bragg	Los Altos
Calistoga	Fortuna	Los Altos Hills
Campbell	Foster City	Los Banos
Capitola	Fowler	Los Gatos
Carmel	Fremont	Madera
Ceres	Fresno	Manteca
Chico	Galt	Maricopa
Chowchilla	Gilroy	Marina
Citrus Heights	Gonzales	Mariposa
Clayton	Grass Valley	Martinez
Clearlake	Greenfield	Marysville
Cloverdale	Gridley	McFarland
Clovis	Grover Beach	Mendota
Coalinga	Guadalupe	Menlo Park
Colfax	Gustine	Merced
Colma	Half Moon Bay	Mill Valley

Millbrae  
Milpitas  
Modesto  
Monte Sereno  
Monterey  
Moraga  
Morgan Hill  
Morro Bay  
Mountain View  
Napa  
Newark  
Nevada City  
Newman  
Novato  
Oakdale  
Oakland  
Oakley  
Orange Cove  
Orinda  
Orland  
Oroville  
Pacific Grove  
Pacifica  
Palo Alto  
Paradise  
Parlier  
Paso Robles  
Patterson  
Petaluma  
Piedmont  
Pinole  
Pismo Beach  
Pittsburg  
Placerville  
Pleasant Hill  
Pleasanton  
Plymouth  
Point Arena  
Portola  
Portola Valley  
Rancho Cordova  
Red Bluff  
Redding  
Redwood City  
Reedley  
Richmond

Ridgecrest  
Rio Dell  
Rio Vista  
Ripon  
Riverbank  
Rocklin  
Rohnert Park  
Roseville  
Ross  
Sacramento  
Saint Helena  
Salinas  
San Anselmo  
San Bruno  
San Carlos  
San Francisco  
San Joaquin  
San Jose  
San Juan Bautista  
San Leandro  
San Luis Obispo  
San Mateo  
San Pablo  
San Rafael  
San Ramon  
Sand City  
Sanger  
Santa Clara  
Santa Cruz  
Santa Maria  
Santa Rosa  
Saratoga  
Sausalito  
Scotts Valley  
Seaside  
Sebastopol  
Selma  
Shafter  
Shasta Lake  
Soledad  
Solvang  
Sonoma  
Sonora  
South San Francisco  
Stockton  
Suisun City

Sunnyvale  
Sutter Creek  
Taft  
Tehama  
Tiburon  
Tracy  
Trinidad  
Turlock  
Ukiah  
Union City  
Vacaville  
Vallejo  
Victorville  
Walnut Creek  
Wasco  
Waterford  
Watsonville  
West Sacramento  
Wheatland  
Williams  
Willits  
Willows  
Windsor  
Winters  
Woodland  
Woodside  
Yountville  
Yuba City